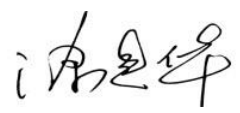




**Verification and certification report form for CDM project activities
(Version 01.0)**

VERIFICATION AND CERTIFICATION REPORT

Title of the project activity	Luohe MSW Landfill Site LFG Recovery to Power Project
Reference number of the project activity	5238
Version number of the verification and certification report	02
Completion date of the verification and certification report	20/07/2016
Monitoring period number and duration of this monitoring period	2 nd Monitoring period 01/04/2013-29/02/2016 (first and last days included)
Version number of monitoring report to which this report applies	02
Crediting period of the project activity corresponding to this monitoring period	10-years fixed crediting period is from 07/10/2011-06/10/2021
Project participant(s)	Shanghai BCCY New Power Industry Co.,Ltd (Project owner) UPM Umwelt-Projekt-Management GmbH (Buyer)
Host Party	China
Sectoral scope(s), selected methodology(ies), and where applicable, selected standardized baseline(s)	Sectoral scope 01: Energy industries (renewable/non-renewable sources) selected methodology : AMS-I.D: Grid connected renewable electricity generation - Version 16.0 Sectoral scope 13: Waste handling and disposal selected methodology: AMS-III.G: Landfill Methane Recovery - Version 6.0
Estimated GHG emission reductions or net anthropogenic GHG removals for this monitoring period in the registered PDD	112,012 tCO ₂ e
Certified GHG emission reductions or net anthropogenic GHG removals for this monitoring period	149,590 tCO ₂ e
Name of DOE	China Classification Society Certification Company (CCSC)
Name, position and signature of the approver of the verification and certification report	Mr. TU Jianhua, Deputy General Manager 

SECTION A. Executive summary

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Shanghai BCCY New Power Industry Co.,Ltd has commissioned China Classification Society Certification Company (hereafter referred to as "CCSC") to carry out the 2nd periodic verification of Luohe MSW Landfill Site LFG Recovery to Power Project (hereafter referred to as "the Project", UNFCCC reference No.5238) covering the monitoring period from 01/04/2013-29/02/2016.

The verification is based on the currently valid documentation of the United Nations Framework Convention on Climate Change (UNFCCC).

The verification process includes three phases: 1) desk review of documents; 2) on-site inspection and follow-up interviews with the relevant personnel; 3) resolution of outstanding issues and the issuance of final verification report and opinion.

Two Corrective Action Requests (CARs) and one Clarification Requests (CLs) were raised in the verification process and successfully closed upon the project participant taken actions and submitted the revised monitoring report and supporting evidence. No Forward Action Request (FAR) was raised during this verification.

In summary, CCSC confirms that the Project is implemented as planned and described in the validated and registered project design documents. The registered monitoring plan is in accordance with the applied methodologies and the monitoring system is in place and functional. The installed equipment for measuring parameters required for calculating emission reductions are calibrated appropriately. The Project is generating GHG emission reductions. The GHG emission reductions are calculated without material misstatements.

Based on the verified amount of emission reductions stated in the verification report, CCSC confirms the following statement, and requests the CDM-EB to issue the CERs:

Actual emission reduction for the monitoring period up to (and including) 31 December 2012	0 tCO ₂ e
Actual emission reduction for the monitoring period from (and including) 1 January 2013 onwards	149,590 tCO ₂ e
Total amount of GHG emission reductions or net GHG removals by sinks achieved in this monitoring period (01/04/2013-29/02/2016)	149,590 tCO ₂ e

A.1. Objective

CDM project Verification is the periodic independent review and ex-post determination by a DOE of the monitored reductions in GHG emissions during defined verification period. In carrying out its verification work, the DOE shall ensure that the project activity complies with the requirements of paragraph 62 of the CDM modalities and procedures. The verification shall:

- Ensure that the project activity has been implemented and operated as per the registered PDD or any approved revised PDD, and that all physical features (technology, project equipment, and monitoring and metering equipment) of the Project are in place;
- Ensure that the monitoring report and other supporting documents provided are complete in accordance with latest applicable version of the completeness checklist for requests for issuance of CERs and verifiable and in accordance with applicable CDM requirements;
- Ensure that actual monitoring systems and procedures comply with the monitoring systems and procedures described in the monitoring plan or any revised approved monitoring plan, and the approved methodologies including applicable tool(s);

- Evaluate the data recorded and stored as per the monitoring methodologies including applicable tool(s).

A.2. Scope

The verification scope covers the relevant documents (e.g. the registered PDD, the Monitoring Plan, the Monitoring Report, the emission reduction calculation spreadsheet, supporting documents available to the verifier and information collected through performing interviews and during the on-site assessment, EB's request and guidelines publicly available, relevant rules, including the host country legislation, etc.) to be independently reviewed, the Project geographical locations to be visited on-site, the Project local stakeholders to be interviewed with, and processes that are necessary to acquire objective evidence for the evaluation of the Project compliance to the CDM verification requirements.

The above verification activities are conducted according to the CDM requirements. In doing so, the principles of accuracy and completeness, relevance, reliability and credibility were followed.

The verification is not meant to provide any consulting service towards the PPs. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the Project.

A.3. CDM Project Description

Luohe MSW Landfill Site LFG Recovery to Power Project (Hereinafter referred to as the project activity) is developed by Shanghai BCCY New Power Industry Co., Ltd. ,which aims to recover and destroy landfill gas (LFG) generated at the municipal solid waste (MSW) landfill site(Luohe city landfill area #1) in Luohe city, Henan province, P.R. China. The collected LFG is used for electricity production. The electricity generation offsets carbon emissions from the combustion of fossil fuel. Consequently ERs are claimed for both methane combustion and power displacement.

The objective is activity involves the installation of a LFG collection system, a LFG transmission system, a LFG pre-treatment system, an electricity generation unit, grid-connection system.4 sets of gas engines with capacity of 500kW each (a total capacity of 2 MW) has been installed as per the registered PDD. The gas engines combust landfill gas, which contains methane, to produce electricity and export it to the grid. The project activity boundary is the site of the project activity, Luohe landfill area #1, where the gas is captured and used. Moreover, since the electricity generated by the LFG is exported to Central China Power Grid, the project activity boundary also includes all the power generation sources connected to the Central China Power Grid.

The construction of the project started on 03/08/2009. By reviewing the operation log of the project, it was confirmed by the verification team that, 2# and 1# gas engine were put into use and connected to CCPG on 31/05/2010and 01/06/2010 separately. 3# gas engine was put into use and connected to CCPG on 02/11/2012.4# gas engine was connected to CCPG on 10/12/2013.

During this monitoring period (01/04/2013-29/02/2016), the Project has been operated normally and there have been no events or situations that occurred which may impact the applicability of the applied methodologies. The total claimed amount of ERs is 149,590 tCO₂e in this monitoring period from 01/04/2013 to 29/02/2016(first and last days included).

SECTION B. Verification team, technical reviewer and approver

B.1. Verification team member

No.	Role	Type of	Last name	First name	Affiliation	Involvement in
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		resource			(e.g. name of central or other office of DOE or outsourced entity)	Desk review	On-site inspection	Interview(s)	Verification findings
1.	Team Leader	IR	LIU	Peitao	CCSC Central Office	√	√	√	√
2.	Verifier	EI	SHEN	Meng	CCSC Central Office	√	√	√	
3.	Trainee Verifier/Technical Expert	IR	MA	Zhiwei	CCSC Central Office	√	√	√	√

Note: IR: Internal Resources, EI: External Individuals

B.2. Technical reviewer and approver of the verification and certification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	IR	TONG	Yumei	CCSC Central Office
2.	Technical reviewer	IR	XIE	Fengjun	CCSC Central Office
3.	Approver	IR	TU	Jianhua	CCSC Central Office

SECTION C. Application of materiality

All the data and information has been checked during verification, thus the concept of materiality has not applied in the verification.

C.1. Consideration of materiality in planning the verification

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1	N/A	N/A	N/A	N/A

C.2. Consideration of materiality in conducting the verification

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N/A

SECTION D. Means of verification

D.1. Desk review

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After receiving the Monitoring Report Version 01 dated 18/04/2016(/1/), CCSC made it publicly available on the UNFCCC CDM dedicated website on 22/04/2016. (Link: http://cdm.unfccc.int/Projects/DB/Germanischer1316505026.06/iProcess/CCSC_DOE1461299213.72/view).

A desk review of the Monitoring Report Version 01 dated 18/04/2016 and supporting documents was conducted by the verification team. The aim of the desk review of the documentation was to verify the completeness of the data and the information presented, to carry out the compliance check of the MR with respect to the monitoring plan and the applied methodologies. Particular attention was given to the frequency of measurements, the quality of the metering equipment including calibration requirements, and the quality assurance and quality control procedures. The evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions was also conducted.

In addition to the monitoring documentation provided by the project participants, the DOE reviews:

- (a) The registered PDD ;
- (b) The validation report ;
- (c) The applied monitoring methodologies ;
- (d) Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board ;
- (e) Other information and references relevant to the project activity's resulting emission reductions (e.g. IPCC reports, laboratory analysis or national regulations) .

Appendix 2 of this report contains a complete list of all documents and proofs reviewed by the verification team.

D.2. On-site inspection

Duration of on-site inspection: 30/05/2016				
No.	Activity performed on-site	Site location	Date	Team member
1.	Opening meeting (Scope of work, timetable, approval process, CDM procedure for verification, verification methodologies, confidentiality)	project site	30/05/2016	Mr. LIU Peitao Ms. MA Zhiwei Mr. SHEN, Meng
2.	Project site visit including the status of the project implementation: Main equipments Central control room and data acquisition and processing system Monitoring device and installed position.	Project site	30/05/2016	
3.	Interview (Refer to the table in D.3)	Project site	30/05/2016	
4.	Document Review of monitoring records, invoices, calibration records, etc	Project site	30/05/2016	
5.	Closing Meeting CARs/CLs discussion, findings compilation, agreement on the time frame for replies	Project site	30/05/2016	

	Recommendations, impacts of the findings and delayed response upon timings and next steps.			
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D.3. Interviews

No	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	WANG	Lei	Shanghai BCCY New Power Industry Co.,Ltd	30/05/2016	Status of the CDM project implementation.	Mr. LIU Peitao Ms. MA Zhiwei Mr. SHEN ,Meng
2.	ZHANG	Rui			Any changes of the CDM project;	
3.	LIANG	Nan			The Project on-site inspection – the evidences of construction, status and operation of key equipment, parameters monitoring and data processing activities, monitor equipment and calibration;	
4.	PANG	Wei			Compliance of the project implementation with the registered project design document;	
5.	YANG	Peng			Compliance with National Laws and Regulations. Quality Management; organizational structure, responsibilities and competencies. Internal QA/QC Management procedures and document control (QA/QC) Environmental Impacts Preparation of Monitoring Report. Compliance of the monitoring plan with the monitoring methodologies; Compliance of monitoring with the monitoring plan; Assessment of data and calculation of GHG emission reductions.	

D.4. Sampling approach

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N/A

D.5. Clarification requests, corrective action requests and forward action requests raised

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring report form	-	-	-
Compliance of the project implementation with the registered PDD	-	-	-
Post-registration changes	-	-	-
Compliance of the monitoring plan with the monitoring methodologies including applicable tool and standardized baseline	-	-	-
Compliance of monitoring activities with the registered monitoring plan	-	1	-
Compliance with the calibration frequency requirements for measuring instruments	-	1	-
Assessment of data and calculation of emission reductions or net removals	1	-	-
Others (please specify)	-	-	-
Total	1	2	-

SECTION E. Verification findings**E.1. Compliance of the monitoring report with the monitoring report form**

Means of verification	Through cross-check and comparison, to confirm if the applied monitoring report form is valid and listed in UNFCCC website(/40/).
Findings	Through document review of the provided monitoring report (MR) and comparison with the latest MR template, the verification team confirm: <ul style="list-style-type: none"> The MR used the latest form available at UNFCCC website. The MR is complete and meets all requirements of Instructions for filling out the monitoring report form and "Clean development mechanism project standard"(/38/). No CARs/CLs/FARs raised in this section.
Conclusion	According to Para. 382 of VVS Version 09.0, CCSC verification team confirms that the monitoring report was in compliance with relevant monitoring report form and instructions therein.

E.2. Remaining forward action requests from validation and/or previous verification

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There is no remaining forward action requests from validation and/or previous verification.

E.3. Compliance of the project implementation with the registered project design document

Means of verification	The verification team has performed an on-site inspection to assess: <ul style="list-style-type: none"> a) If all physical features (technology, project equipment, and monitoring
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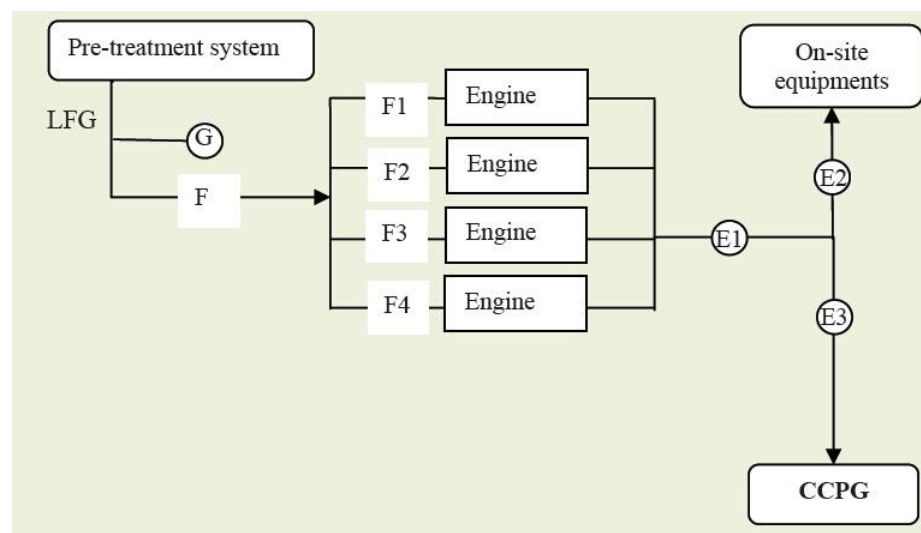
	<p>and metering equipment) of the registered CDM are in place.</p> <p>b) If the PP has operated the project activity as per the PDD.</p> <p>The verification team has:</p> <ul style="list-style-type: none"> • Applied the GPS instruments to check the project location and geo-coordinates; • Checked onsite the nameplates to confirm that the project equipment installation is consistent with the PDD. • Onsite checked the monitoring equipment and diagram of power connection system to confirm monitoring and metering equipment are in place. • Reviewed operation daily logs(/6/) and the Power Purchase Agreement (PPA) (/5/) between the project owner and the power grid, and the diagram of power connection system of the Project(/4/) to confirm the Project has been operated as per the PDD . <p>Interviewed relevant personnel for the project implementation information, and assessed the construction and implementation status with the Implementation log of the Project and the Operation log of the Project to check the implementation status of the Project.</p>												
Findings	<p>The plant site of the project activity is located in the northeast area inside of Luohe City MSW landfill site, one kilometer south of Chengang village, Luohe City, Henan Province, People's Republic of China. The coordinate of engine house of the power plant is longitude 113°59'59" E (113.9997 E) and latitude 33°30'20" N (33.5056 N). These have been verified through GPS instruments during the on-site visit. The geographical information of the Project has been correctly reported in the MR .</p> <p>The purpose of the Project is to collect the landfill gas (LFG) from Luohe city landfill area #1 and utilize it to generate electricity .The electricity generated by the Project is supplied to Central China Power Grid, which can be confirmed in the PPA. The project activity consists of LFG collection and pre-treatment, with subsequent electricity generation and grid connection system. Through checking the nameplates of gas engines on-site(/8/), the verification team can confirm the information of the actually installed equipment has been consistently reported in the MR. The parameter of the equipment have been verified to be consistent with the registered PDD and was listed in the table below.</p> <p>Table 1 Equipment technical parameters of gas engine</p> <table border="1" data-bbox="451 1518 1193 1720"> <tr> <td>Model</td><td>500GF-N1(500GF-NK)</td></tr> <tr> <td>Rate Power</td><td>500kW/625kVA</td></tr> <tr> <td>Rate Voltage</td><td>400V</td></tr> <tr> <td>Rate Speed</td><td>1000r/min</td></tr> <tr> <td>Frequency</td><td>50Hz</td></tr> <tr> <td>Manufacturer</td><td>Jinan Diesel Engine Co., Ltd</td></tr> </table> <p>Therefore, the verification confirmed there is no changes from the project design to actual implementation have been identified during this verification. The operation of the project activity has been conducted in accordance with the registered PDD.</p> <p>According to the construction permission letter(/9/), and confirmed during site visit that the project activity construction began on 03/08/2009 by checking The operation log of the project , 2#and 1# gas engine were put into use and connected to CCPG on 31/05/2010 and 01/06/2010. 3# gas engine was put into use and connected to CCPG on 02/11/2012.4# gas</p>	Model	500GF-N1(500GF-NK)	Rate Power	500kW/625kVA	Rate Voltage	400V	Rate Speed	1000r/min	Frequency	50Hz	Manufacturer	Jinan Diesel Engine Co., Ltd
Model	500GF-N1(500GF-NK)												
Rate Power	500kW/625kVA												
Rate Voltage	400V												
Rate Speed	1000r/min												
Frequency	50Hz												
Manufacturer	Jinan Diesel Engine Co., Ltd												

engine was connected to CCPG on 10/12/2013.

During this monitoring period (01/04/2013-29/02/2016), the Project has been operated normally and there have been no events or situations that occurred which may impact the applicability of the applied methodologies.

[Power System] According to the diagram of the power connection system and the PPA checked during the site visit, the electricity output is delivered to Central China Power Grid.

[Metering System] The monitoring system has been checked onsite by the verification team and has been confirmed to be in compliance with the registered PDD. The line diagrams are shown in below:



$LFG_{total,y}$ - Total LFG captured at Normal Temperature and Pressure in the year y (101.325kPa, 273.15K)

$LFG_{engines,y}$, $LFG_{engines\ 2,y}$, $LFG_{engines\ 3,y}$, $LFG_{engines\ 4,y}$ - LFG combusted in engine 1#, 2#, 3#, 4# at Normal Temperature and Pressure in the year y (101.325kPa, 273.15K)

Flow meter (F) and flow meters (F1~F4) monitor the total amount of landfill gas captured and fed to the gas engines respectively. To be conservative, the monthly minimum of total LFG amount and sum of LFG to engines 1#, 2#, 3#, 4# will be used for ER calculation.

$W_{CH_4,y}$ -Methane fraction in LFG

The cellular gas analyzer (G) monitors the concentration of CH₄ in the LFG. The monitoring data were checked by the operators every day and reported to General Manager by CDM manager monthly.

$EL_{LFG,y}$ - Total amount of electricity produced by all engines in the year y. The electricity produced by all engines in the project is continuously measured by the electricity meter E1 (0.5s) installed at the low voltage side of the on-site transformer substation.

$EL_{onsite,y}$ -The amount of electricity consumed by the project activity in the year y.

The electricity consumed by the project is continuously measured by the electricity meter E2 (0.5s) installed at the low voltage side of the on-site transformer substation.

$EL_{grid,y}$ -Net amount of electricity exported to CCPG by the project activity in the year y.

The electricity meter E3 (0.5s) is installed at the control room of project site

	<p>by Luohe grid company and is used to monitor electricity exported to CCPG by the project activity. This meter is bi-directional and has two-way metering, recording both the electricity exported to the grid and the electricity imported from the grid. The data of electricity exports and imports are recorded and archived by DCS per hour automatically and shown in the control system.</p> <p>Operation hours of the generators: Operation hours of the generators in the year y</p> <p>Operation hours of the generators are recorded and electronic archived once per hour by computer automatically.</p> <p>MD_{reg,y}- Description Methane emission that would be captured and destroyed to comply with national or local safety requirements or legal regulation in the year y.</p> <p>CDM manager regularly follows-up on laws and regulations by government (e.g. governmental publications, official communications, official journal, conference).</p> <p>No CARs/CLs/FARs raised in this section.</p>
Conclusion	<p>According to Para. 385 of VVS Version 09.0 , CCSC verification team confirms that:</p> <ul style="list-style-type: none"> • The implementation status and equipments installation of the project activity are consistent with the PDD ; • The actual operation of the CDM project activity is as per the PDD by the PP; • Information (data and variables) provided in the monitoring report is in accordance with that stated in the PDD .

E.4. Post-registration changes

E.4.1. Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline

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As per the conclusion in section E.5 and E.6, there are no temporary deviations from registered monitoring plan or applied methodologies.

E.4.2. Corrections

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N/A.

E.4.3. Changes to the start date of the crediting period

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As per the UNFCCC website, the start date of the crediting period is changed from 01/12/2011 to 07/10/2011.

E.4.4. Inclusion of a monitoring plan to a registered project activity

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There is no monitoring plan to include to the registered PDD that was not included at registration.

E.4.5. Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline

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There is no permanent change from registered monitoring plan or applied methodology.

E.4.6. Changes to the project design of a registered project activity

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There is no change to project design of registered project activity.

E.4.7. Types of changes specific to afforestation and reforestation project activities

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N/A

E.5. Compliance of monitoring plan with the monitoring methodology including applicable tool and standardized baseline

Means of verification	The monitoring plan included in the registered PDD of the Project has been assessed against the monitoring methodology AMS-III.G: Landfill Methane Recovery - Version 6.0(/35/) and AMS-I.D: Grid connected renewable electricity generation - Version 16.0(/36/).
Findings	<p>Through review of the registered monitoring plan against the monitoring methodology AMS-III.G Version 6.0 and AMS-I.D Version 16.0, the verification team confirmed that the monitoring plan in the PDD is in accordance with the applied monitoring methodology AMS-III.G Version 6.0 and AMS-I.D Version 16.0.</p> <p>The on-site assessment further demonstrated there are no monitoring aspects of the Project that are not specified in the methodologies i.e. AMS-III.G Version 6.0 and AMS-I.D Version 16.0.</p> <p>No CARs/CLs/FARs raised in this section.</p>
Conclusion	<p>CCSC verification team confirms that the monitoring plan in the PDD is in accordance with the applied methodologies, i.e. AMS-III.G Version 6.0 and AMS-I.D Version 16.0.</p> <p>Therefore, the Project is also in compliance with Para. 388 of VVS Version 09.0(/37/).</p>

E.6. Compliance of monitoring activities with the registered monitoring plan**E.6.1. Data and parameters fixed ex ante or at renewal of crediting period**

Means of verification	<p>The data and parameters fixed ex-ante include:</p> <ol style="list-style-type: none"> 1) GWP_{CH_4}- Global Warming Potential of methane 2) D_{CH_4}- Methane Density 3) $EF_{CO_2,grid,y}$ -The baseline grid emission factor <p>These parameters reported in the MR have been checked against the PDD and the applied methodologies by the verification team.</p>
Findings	<p>The $EF_{CO_2,grid,y}$ has been determined ex-ante in the PDD for this crediting period (07/10/2011- 06/10/2021 10 years fixed)) and thus is applicable to this monitoring period (01/04/2013-29/02/2016). In the registered PDD, the value of GWP_{CH_4} is 21. As per the PS, GWP_{CH_4} has been revised from 21</p>

	<p>to 25 in 2nd commitment period in accordance with decision 4/CMP.7, to calculate the emission reductions and removals achieved by CDM project activities. Thus GWP value of GWP_{CH_4} of 25 was adopted by the project. The value of D_{CH_4} is 0.0007168 tCH₄/m³CH₄, the value of $EF_{CO_2,grid,y}$ is 0.8529 tCO₂e/MWh, which have all been verified against the PDD and confirmed as consistent.</p> <p>No CARs/CLs/FARs raised in this section.</p>
Conclusion	<p>In conclusion, according to Para. 392 and 393 of VVS (Version 09.0) and based on CCSC's local and sectorial knowledge, CCSC confirms that:</p> <ul style="list-style-type: none"> • The data and parameters fixed ex-ante have been correctly listed. Parameters fixed ex-ante for required parameters have been verified by checking the information flow and in compliance with the monitoring plan of the PDD.

E.6.2. Data and parameters monitored

Means of verification	<p>According to Para. 390 of VVS Version 09.0, CCSC verification team has performed the following activities to determine whether the monitoring of parameters related to the GHG emission reductions has been implemented in accordance with the registered monitoring plan.</p> <ul style="list-style-type: none"> • Through the on-site inspection of the monitoring system, interview with the operation staff, document review including relevant records, procedures and technical specifications, the verification team has assessed the implementation of the registered monitoring plan followed by the PP; • The parameters stated in the registered monitoring plan have been checked by means above; • The verification team has checked the installation of the monitoring equipments by onsite inspection against PPA, diagram of power connection system and calibration reports by qualified third party; • The documented evidence was checked by the team to confirm the monitoring results; • Based on the interview with the top management and operation staff and the review of the CDM Monitoring & Management Manual(/31/) , CCSC verification team has assessed the quality assurance and quality control procedures applied by the PP. <p>No sampling plan was involved in the project activity.</p>
Findings	<p>All the values reported in section D.2 are not consistent with values verified. CAR -1 was raised for clarification and correction of this.</p> <p>PP clarified that the values in section D.2 is other project and wrongly reported in MR version 01. The verification team has reviewed Daily and monthly operating records of Luohe LFG Recovery to Electricity Project provided by the PP and the revised MR, and confirmed that the values reported in the revised MR are consistent with the values verified. Thus, CAR-1 was closed.</p> <p>According to the registered monitoring plan, the parameters which need to be monitored include:</p> <ol style="list-style-type: none"> 1) LFG_{total,y} - Total LFG captured at Normal Temperature and Pressure in the year y (101.325kPa, 273.15K)

- 2) **LFG_{engines, y}; LFG_{engines 2, y}; LFG_{engines 3, y}; LFG_{engines 4, y}** - LFG combusted in engine 1# ,2#,3#,4# at Normal Temperature and Pressure in the year y (101.325kPa, 273.15K)

Flow meter (F, Accuracy: 1.0) and flow meters (F1~F4, Accuracy: 0.5) monitor the total amount of landfill gas captured and fed to the gas engines respectively. To be conservative, the monthly minimum of total LFG amount and sum of LFG to engines 1#, 2#, 3#,4# will be used for ER calculation.

The flow meter automatically measures the temperature and pressure; expressing LFG volumes in Normalized cubic meters, (Nm³).The monitoring frequency is continuous. The data were record hourly, and totalized daily and monthly. Flow meters were calibrated once a year by a qualified third party during this monitoring period.

The installation of the flow meters were checked during on-site inspection, including the accuracy and locations of the meters.

The verification team has reviewed the daily and monthly operation log of the project (/10/) and confirmed the consistency between them. The verification team also reviewed the emission reduction calculation spreadsheet confirm that the monthly minimum value between LFG_{total,y} and sum of LFG_{engines, y} , LFG_{engines 2, y},LFG_{engines 3, y},and LFG_{engines 4, y} were used for ER calculation, which is compliance with the registered PDD.

The Amount of LFG captured at Normal Conditions (101.325kPa, 273.15K) during this monitoring period is 14,381,496.12Nm³. The Amount of LFG combusted in the project power engines at Normal Conditions is 13,872,353.85Nm³. The value used for ER calculation is 13,872,353.85, for sake of conservative.

The verification team has checked the data included in the monitoring report version 02 (/2/) and ER spreadsheet(/3/) against the meter reading records and can confirm that the reported monitoring data is consistent with the documented evidences.

3) **W_{CH₄,y}**- Methane fraction in LFG

As per the registered PDD, the cellular gas analyzer monitors the concentration of CH₄ in the LFG and recorded at least once per hour. Data should be aggregated monthly and yearly.

During the on-site verification, it was confirmed Gas analyzer (Accuracy: 2%) was used to monitor the Methane fraction in LFG (W_{CH₄,y}). It was confirmed by interviewing with the operation staff that the methane content measurement is carried out close to a location in the system where a landfill gas flow measurement takes place, and at the same basis.

By reviewing the Daily operating records of Luohe LFG Recovery to Electricity Project, it was found that W_{CH₄,y} was monitored continuously, recorded once per hour and aggregated daily and then monthly. By review the ER spreadsheet, it was confirmed that the monthly W_{CH₄,y} were used for ER calculation.

The verification team have review the calibration report of the Gas analyzer and confirmed that the analyzer is calibrated once a year by a qualified third party as per the registered PDD.

The average value is 50.53% in the monitoring period (01/04/2013-29/02/2016). The verification team has checked the data included in the monitoring report version 02 and ER spreadsheet against the Daily and monthly operating records of Luohe LFG Recovery to Electricity Project and

can confirm that the reported monitoring data is consistent with the documented evidences.

4) **EL_{LFG,y}** - Total amount of electricity produced by all engines in the year y.

As per the registered PDD, the electricity produced by all engines in the project is continuously measured by the electricity meter E1. Accuracy of installed electricity meter will meet the national standard for meters. Electricity meter will be subject to a regular maintenance, testing regime and calibration, in accordance with the manufacturer's specifications, to ensure measurement accuracy.

As verified by the assessment team, the electricity produced by all engines in the project is continuously measured by the electricity meter E1 (the accuracy: 0.5S, Model: DTSD546, SN: 100308008276) installed at the low voltage side of the on-site transformer substation. The monitoring frequency is continuous and the data are recorded and electronic archived once per hour by computer automatically. The operator checks the data every day, and totalized the data every month.

The verification team have review the calibration report of the E1 and confirmed that the electricity meter was calibrated once a year by a qualified third party.

The monitored value in the monitoring period (01/04/2013-29/02/2016) is 30,334.71MWh. The verification team has checked the data included in the monitoring report version 02 and ER spreadsheet against the Daily and monthly operating records of Luohe LFG Recovery to Electricity Project and confirmed that the reported monitoring data is consistent with the documented evidences.

5) **EL_{onsite,y}**-The amount of electricity consumed by the project activity in the year y.

As per the registered PDD, the electricity consumed by the project is continuously measured by the electricity meter E2. Accuracy of installed electricity meter will meet the national standard for meters. Electricity meters will be subject to a regular maintenance, testing regime and calibration, in accordance with the manufacturer's specifications, to ensure measurement accuracy.

As verified by the assessment team, the electricity consumed by the project is continuously measured by the electricity meter E2 (the accuracy: 0.5S, Model: DTSD546, SN: 100308008277) installed at the low voltage side of the on-site transformer substation. The monitoring frequency is continuous. In addition, the data are recorded and electronic archived once per hour by computer automatically. The operator checks the data every day, and totalized the data every month.

The verification team have review the calibration report of the E2 and confirmed that the electricity meter was calibrated once a year by a qualified third party.

The monitored value in the monitoring period (01/04/2013-29/02/2016) is 1,452.09MWh. The verification team has checked the data included in the monitoring report version 02 and emissions reduction calculation spreadsheet version 02 against the Daily and monthly operating records of Luohe LFG Recovery to Electricity Project and confirmed that the reported monitoring data is consistent with the documented evidences.

6) **EL_{grid,y}**-Net amount of electricity exported to CCPG by the project activity in the year y

As per the registered PDD, will measured by continuous electricity meter

and the data will be aggregated monthly and yearly. Archived data will be kept during the crediting period and two years after. The monthly or/and yearly data could be cross-checked by electricity sales receipt.

As verified, an electricity meter E3 (the accuracy: 0.5S, Model: DSSD536, bidirectional, SN: 100106653840) is well installed and sealed at the central control room of project site by Luohe grid company. The meter E3 was calibrated annually according to the Regulation of Electrical Energy Meters with Electronics (JJG596-2012). This meter is bidirectional and recorded both the electricity exported to the grid and the electricity imported from the grid. The data of electricity exported to and imported from the grid were recorded and archived by DCS per hour automatically and shown in the control system. The monitoring data were checked by the operators every day and reported to General Manager by CDM manager monthly. As per the registered PDD, monthly Values were double checked with the sale invoices and purchase invoices. As clarified by the PP during site visit, the transaction of electricity is not conducted on a natural monthly basis (i.e from 1st to the end day of a month), therefore, the sales invoices is not appropriate for cross check. In this monitoring period, to crosscheck the monthly valued recorded by PP, the Luohe grid company has issued the statement on the electricity exported to the grid and the electricity imported from the grid by the project (/11/). The verification team have reviewed the statement and confirmed that the monitored monthly valued of the electricity exported to the grid and the electricity imported from the grid are the same as confirmed by Luohe grid company in the statement.

The monitored value in the monitoring period (01/04/2013-29/02/2016) is 27,644.26MWh. The verification team has checked the data included in the monitoring report version 02 and emissions reduction calculation spreadsheet version 02 against the Daily and monthly operating records of Luohe LFG Recovery to Electricity Project and confirmed that the reported monitoring data is consistent with the documented evidences.

7) Operation hours of the generators: Operation hours of the generators in the year y

As per the registered PDD, Operation hours of the generators are recorded and electronic archived once per hour by computer automatically.

The monitored value in the monitoring period (01/04/2013-29/02/2016) is 82,314.00h. The verification team has checked the data included in the monitoring report version 02 and emissions reduction calculation spreadsheet version 02 against the Daily and monthly operating records of Luohe LFG Recovery to Electricity Project and confirmed that the reported monitoring data is consistent with the documented evidences.

8) MD_{reg,y}- Methane emissions that would be captured and destroyed to comply with national or local safety requirement or legal regulations

As per the registered PDD, CDM manager regularly follows-up on laws and regulations by government (e.g. governmental publications, official communications, official journal, conference).

No methane would be destroyed to comply with Chinese regulatory requirements related to LFG during this monitoring period.

Management and operational system:

The PP has the responsibility of overall monitoring, which has established a monitoring team for monitoring of power generation, maintenance and operation of the CDM Project activity. All the records related to generation

	<p>and maintenance has been sufficiently maintained.</p> <p>Responsibilities have been allocated to well-trained monitoring staff as per the monitoring plan.</p> <p>The QA/QC procedures and emergency procedures are part of management system and are documented in management procedures.</p> <p>The records and all relevant paper based information are well archived by the project owner and available for verification.</p> <p>The responsibilities and the procedures included in the CDM Monitoring & Management Manual have been verified. CDM Monitoring & Management Manual and internal training records (/32/) have been provided and verified by the verification team.</p>
Conclusion	<p>Corresponding to the paragraph 392 and 393 of VVS Version 09.0 , CCSC verification team confirms that:</p> <ul style="list-style-type: none"> • The monitoring has been carried out in accordance with the monitoring plan contained in the PDD(/33/). • All parameters required by the monitoring plan have been sufficiently monitored and correctly listed. The monitored data for required parameters have been verified by checking the whole information flow.

E.6.3. Implementation of sampling plan

Means of verification	All the data and information has been checked during verification, thus no sampling plan has been applied in the project.
Findings	N/A
Conclusion	N/A

E.7. Compliance with the calibration frequency requirements for measuring instruments

Means of verification	<p>The monitoring equipment should be calibrated annually according to the registered monitoring plan. The accuracy of the monitoring equipment is listed as follows:</p> <p>F - Flow meter (Accuracy: 1.0) to continuously measure total flow of collected LFG ($LFG_{total,y}$), with automatically measure of temperature and pressure, expressing LFG volumes in normalized cubic meters;</p> <p>F1~F4 - Flow meters (Accuracy: 0.5 to continuously measure LFG combusted in engine 1# ,2#,3#,4# at Normal Temperature and Pressure in the year y ($LFG_{engines, y}$, $LFG_{engines 2, y}$, $LFG_{engines 3, y}$, $LFG_{engines 4, y}$, , unit: Nm^3/h), expressing LFG volumes in normalized cubic meters.</p> <p>Gas analyzer (Accuracy: 2%) to continuously measure methane fraction in LFG ($W_{CH_4,y}$).</p> <p>E1 - Electricity meter (accuracy: 0.5S) to continuously measure Total amount of electricity produced by all engines in the year y;</p> <p>E2 - Electricity meter (accuracy: 0.5S) to continuously measure on the amount of electricity consumed by the project activity in the year y..</p> <p>E3 – Electricity meter (Main meter, bi-directional, accuracy: 0.5S) to continuously measures Net amount of electricity exported to CCPG by the project activity in the year y.</p>
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	The verification team has verified the calibration reports against the registered monitoring plan and relevant national or local standards.																																																																																							
Findings	<p>The following monitoring equipment are involved in the monitoring system. During this monitoring period, all the meters have been operating well and were duly calibrated(/17//18//19//20//21//22//23//24//25//26//27//28//29//30/). Through on-site observation and checking calibration reports, the verification team confirmed the information of metering equipment has been consistently reported in the MR, as below :</p> <table border="1"> <thead> <tr> <th>Name</th><th>Type</th><th>Accuracy</th><th>Serial Number</th><th>Calibration Validity</th><th>Validity</th></tr> </thead> <tbody> <tr> <td rowspan="4">Flow meter F</td><td rowspan="4">V10FTH3E5S</td><td rowspan="4">1.0</td><td rowspan="4">ZN10F0302</td><td>24/09/2012</td><td rowspan="4">20/09/2016</td></tr> <tr> <td>23/09/2013</td></tr> <tr> <td>22/09/2014</td></tr> <tr> <td>21/09/2015</td></tr> <tr> <td rowspan="4">Flow meter F1</td><td rowspan="4">PRVZW-100</td><td rowspan="4">0.5</td><td rowspan="4">F61-1007-10319</td><td>20/08/2012</td><td rowspan="4">02/08/2016</td></tr> <tr> <td>05/08/2013</td></tr> <tr> <td>04/08/2014</td></tr> <tr> <td>03/08/2015</td></tr> <tr> <td rowspan="4">Flow meter F2</td><td rowspan="4">RLVZM-100</td><td rowspan="4">0.5</td><td rowspan="4">F61-1207-00209</td><td>05/11/2012</td><td rowspan="4">02/08/2016</td></tr> <tr> <td>05/08/2013</td></tr> <tr> <td>04/08/2014</td></tr> <tr> <td>03/08/2015</td></tr> <tr> <td rowspan="4">Flow meter F3</td><td rowspan="4">PRVZW-100</td><td rowspan="4">0.5</td><td rowspan="4">F61-1007-10318</td><td>20/08/2012</td><td rowspan="4">02/08/2016</td></tr> <tr> <td>05/08/2013</td></tr> <tr> <td>04/08/2014</td></tr> <tr> <td>03/08/2015</td></tr> <tr> <td rowspan="4">Flow meter F4</td><td rowspan="4">RLVZM-100</td><td rowspan="4">0.5</td><td rowspan="4">F61-1305-0167</td><td>18/11/2013</td><td rowspan="4">13/11/2016</td></tr> <tr> <td>15/11/2014</td></tr> <tr> <td>14/11/2015</td></tr> <tr> <td></td></tr> <tr> <td rowspan="4">Gas analyzer</td><td rowspan="4">GTR 196</td><td rowspan="4">2%</td><td rowspan="4">55300/7</td><td>18/09/2012</td><td rowspan="4">23/06/2016</td></tr> <tr> <td>10/09/2013</td></tr> <tr> <td>09/09/2014</td></tr> <tr> <td>24/06/2015</td></tr> <tr> <td rowspan="4">Electricity meter E1</td><td rowspan="4">DTSD546</td><td rowspan="4">0.5S</td><td rowspan="4">100308 008276</td><td>01/07/2012</td><td rowspan="4">08/06/2016</td></tr> <tr> <td>17/06/2013</td></tr> <tr> <td>10/06/2014</td></tr> <tr> <td>09/06/2015</td></tr> <tr> <td rowspan="4">Electricity meter E2</td><td rowspan="4">DTSD546</td><td rowspan="4">0.5S</td><td rowspan="4">100308 008277</td><td>01/07/2012</td><td rowspan="4">08/06/2016</td></tr> <tr> <td>17/06/2013</td></tr> <tr> <td>10/06/2014</td></tr> <tr> <td>09/06/2015</td></tr> <tr> <td rowspan="4">Electricity meter E3</td><td rowspan="4">DSSD536</td><td rowspan="4">0.5S</td><td rowspan="4">100106 653840</td><td>13/04/2012</td><td rowspan="4">09/04/2016</td></tr> <tr> <td>12/04/2013</td></tr> <tr> <td>11/04/2014</td></tr> <tr> <td>10/04/2015</td></tr> </tbody> </table> <p>In Table C.2 Detailed calibration information, some of the dates reported are not consistent with the calibration reports provided for verification. CAR -2 was raised for correction.</p> <p>In response to CAR-2, PP has revised the MR. The verification team reviewed the revised MR and confirmed the wrongly reported dates are corrected .CAR-2 was closed.</p> <p>[Calibration frequency]</p> <p>The calibration frequency of the Gas analyzer fulfills the requirement as described in the monitoring plan contained in the PDD and is in compliance with the industry standard JJG 693-2001(/15/).The calibration frequency of the flow meters fulfills the requirement as described in the monitoring plan contained in the PDD and is in compliance with the industry standard JJG640-1994(/16/). The calibration frequency of the Electricity meters fulfills the requirement as described in the monitoring plan contained in the PDD and is in compliance with the industry standard JJG 596-2012(/14/).</p>	Name	Type	Accuracy	Serial Number	Calibration Validity	Validity	Flow meter F	V10FTH3E5S	1.0	ZN10F0302	24/09/2012	20/09/2016	23/09/2013	22/09/2014	21/09/2015	Flow meter F1	PRVZW-100	0.5	F61-1007-10319	20/08/2012	02/08/2016	05/08/2013	04/08/2014	03/08/2015	Flow meter F2	RLVZM-100	0.5	F61-1207-00209	05/11/2012	02/08/2016	05/08/2013	04/08/2014	03/08/2015	Flow meter F3	PRVZW-100	0.5	F61-1007-10318	20/08/2012	02/08/2016	05/08/2013	04/08/2014	03/08/2015	Flow meter F4	RLVZM-100	0.5	F61-1305-0167	18/11/2013	13/11/2016	15/11/2014	14/11/2015		Gas analyzer	GTR 196	2%	55300/7	18/09/2012	23/06/2016	10/09/2013	09/09/2014	24/06/2015	Electricity meter E1	DTSD546	0.5S	100308 008276	01/07/2012	08/06/2016	17/06/2013	10/06/2014	09/06/2015	Electricity meter E2	DTSD546	0.5S	100308 008277	01/07/2012	08/06/2016	17/06/2013	10/06/2014	09/06/2015	Electricity meter E3	DSSD536	0.5S	100106 653840	13/04/2012	09/04/2016	12/04/2013	11/04/2014	10/04/2015
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Conclusion	<p>Corresponding to the paragraph 400 of VVS Version 09.0 , CCSC verification team confirms that:</p> <ul style="list-style-type: none"> The calibration is conducted at the frequency as specified by the methodologies and the monitoring plan contained in the PDD .
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E.8. Assessment of data and calculation of emission reductions or net removals

E.8.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

Means of verification	<p>According to the Para.402 of VVS Version 09.0 , the verification team has performed the following activities to assess the data and calculations of GHG emission reductions achieved by the Project as per the methodologies :</p> <ul style="list-style-type: none"> Through desk review and on-site inspection on the monitoring results from the data records, to verify that a complete set of data for the specified monitoring period is available. Information provided in the monitoring report /1/ has been cross-checked with other sources. Review the calculations of baseline GHG emissions have been carried out in accordance with the formulae and methods described in the PDD , and the methodologies ; Review emission factors, GWPs and other reference values as per the PDD.
Findings	<p>According to the PDD and the applied methodologies , the baseline emissions are calculated as follows:</p> $BE_y = (MD_{project,y} - MD_{reg,y}) * GWP_{CH4} + EL_{grid,y} * EF_{grid,y}$ <p>Where:</p> <p>BE_y - Baseline emission in the year y (tCO₂e)</p> <p>$MD_{project,y}$ - Methane captured and destroyed/gainfully used by the project activity in the year y (tCH₄)</p> <p>$MD_{reg,y}$ - Methane emissions that would be captured and destroyed to comply with national or local safety requirement or legal regulations in the year y (tCH₄)</p> <p>GWP_{CH4} - Global Warming Potential for methane</p> <p>$EL_{grid,y}$ - Quantity of net electricity supplied to the grid as a result of the implementation of the CDM project activity in year y (MWh)</p> <p>$EF_{grid,y}$ - CO₂ emission factor of the grid in year y (tCO₂e/MWh)</p> <p>To be conservative, in this project, the smaller value of F and F1+F2+F3+F4 is used to calculate the parameter $MD_{project,y}$. The detailed calculation process has been showed in Luohe ER Sheet, and the value of $MD_{project,y}$ in this monitoring period is 5,040.51 tCH₄.</p> <p>For the project, The local and national mandatory regulations are not enforced to be implemented. Therefore, $MD_{reg,y}$ is zero. Therefore,</p> $BE_y = (MD_{project,y} - MD_{reg,y}) * GWP_{CH4} + EL_{grid,y} * EF_{grid,y}$ $= (5,040.51 tCH_4 - 0 tCH_4) * 25 + 27,644.26 MWh * 0.8529 tCO_2e/MWh$ $= 126,012.75 tCO_2e + 23,577.78 tCO_2e$

	<p>=149,590 tCO₂e</p> <p>The verification team confirmed the calculation of baseline emissions as reported in the MR and the ER spreadsheet is correct.</p> <p>No CARs/CLs/FARs raised in this section.</p>
Conclusion	<p>Corresponding to the paragraph 403 of VVS Version 09.0 , CCSC verification team confirms that:</p> <ul style="list-style-type: none"> • A complete set of data for the monitoring period is available. • Information on the baseline GHG emission calculation provided in the monitoring report has been cross-checked with other sources. • Calculations of baseline emissions have been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodologies document. • There are no assumptions applied. • Appropriate emission factor of the power grid has been correctly applied.

E.8.2. Calculation of project GHG emissions or actual net GHG removals by sinks

Means of verification	The verification team has reviewed the project emission calculation as per the PDD and the applied methodologies .
Findings	<p>The project is collect the landfill gas (LFG) and utilize it to generate electricity.as verified during site visit , fossil fuel isn't used by the project, and there is no flare used to destroy the LFG for the project. As per the applied methodologies, the project emission is 0tCO₂e.</p> <p>No CARs/CLs/FARs raised in this section.</p>
Conclusion	<p>Corresponding to the paragraph 403 of VVS Version 09.0 , CCSC verification team confirms that:</p> <ul style="list-style-type: none"> • A complete set of data for the monitoring period is available. • Information on the project GHG emission calculation provided in the monitoring report has been cross-checked with other sources. • Calculations of project emissions have been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodologies document.

E.8.3. Calculation of leakage GHG emissions

Means of verification	The verification team has reviewed the leakage calculation as per the PDD and the applied methodologies .
Findings	<p>The methane recovery equipment of the project is new and not transferred from another activity, As per the applied methodologies, so there are no leakage emissions for this part.</p> <p>Therefore, according to the PDD, $L_y = 0 \text{ tCO}_2\text{e}$</p> <p>No CARs/CLs/FARs raised in this section.</p>
Conclusion	<p>Corresponding to the paragraph 403 of VVS Version 09.0 , CCSC verification team confirms that:</p> <ul style="list-style-type: none"> • A complete set of data for the monitoring period is available.

	<ul style="list-style-type: none"> Information on the leakage GHG emission calculation provided in the monitoring report has been cross-checked with other sources. Calculations of leakage have been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodologies document.
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E.8.4. Summary of calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

Means of verification	The verification team has reviewed the calculation of GHG emission reductions in the final MR and the ER spreadsheet as per the PDD and the applied methodologies .
Findings	<p>The emission reductions during the monitoring period (01/04/2013-29/02/2016) are calculated as:</p> $ER_y = BE_y - PE_y - L_y = 149,590 \text{ tCO}_2\text{e} - 0 \text{ tCO}_2\text{e} - 0 \text{ tCO}_2\text{e} = 149,590 \text{ tCO}_2\text{e}.$ <p>The team confirmed the calculation of emission reductions as reported in the MR and the ER spreadsheet is correct.</p> <p>No CARs/CLs/FARs raised in this section.</p>
Conclusion	<p>Corresponding to the paragraph 403 of VVS Version 09.0 , CCSC verification team confirms that:</p> <ul style="list-style-type: none"> A complete set of data for the monitoring period is available. Information provided in the monitoring report has been cross-checked with other sources; Calculations of baseline emissions, and project activity emissions and leakage, as appropriate, been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodologies document. There are no assumptions in emission reductions calculation. Appropriate emission factor of the power grid has been correctly applied.

E.8.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD

Means of verification	The comparison of actual GHG emission reductions with estimates in PDD has been checked and re-calculated by the verification team.		
Findings	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)	112,012	149,590
	As per the registered PDD, the ex-ante ERs in 2013, the ex-ante ERs is 35,198 tCO ₂ e, and ERs duration 01/04/2013-31/12/2013 is 26,519 tCO ₂ e ($35,198/365 \times 275 = 26,519 \text{ tCO}_2\text{e}$) ;		

	<p>The ex-ante ERs in 2014, the ex-ante ERs is 37,857 tCO₂e;</p> <p>The ex-ante ERs in 2015, the ex-ante ERs is 40,544 tCO₂e ;</p> <p>The ex-ante ERs in 2016, the ex-ante ERs is 43,262 tCO₂e , and ERs duration 01/01/2016-29/02/2016 is 7,092 tCO₂e (43,262/366*60=7,092tCO₂e);</p> <p>The ex-ante emission reductions during this crediting period is 112,012tCO₂e (26,519 tCO₂e +37,857 tCO₂e +40,544 tCO₂e +7,092 tCO₂e =112,012 tCO₂e).</p> <p>No CARs/CLs/FARs raised in this section.</p>
Conclusion	<p>Corresponding to the paragraph 256 of CDM Project Standard Version 09.0 , CCSC can confirm that:</p> <ul style="list-style-type: none"> • A comparison of actual GHG emission reductions or net anthropogenic GHG removal of the project activity achieved during this monitoring period with the estimates in the PDD has been provided in the Monitoring Report, and the results are correct.

E.8.6. Remarks on difference from estimated value in registered PDD

Means of verification	<p>The verified emission reductions are 33.55% higher than the estimated value in the monitoring period. Remarks on difference from estimated value in the PDD provided in the monitoring report has been verified by the verification team.</p>
Findings	<p>Based on the above assessment, the emission reduction during the monitoring period (01/04/2013-29/02/2016) is verified as 149,590 tCO₂e. According to the PDD, the value of estimated emission reductions during this monitoring period in the PDD are 112,012 tCO₂e, the verified emission reductions are 33.55% higher than the estimated value in the monitoring period. CL-1 was raised for clarification on the difference from estimated value in registered PDD.</p> <p>In response to CL-1, PP clarified that the difference is due to the 3 reasons as below:</p> <p>As reported in the version 02 of the MR, the actual emission reductions of Luohe is 149,590 tCO₂e in this monitoring period, which is 33.5% higher than the estimated value 112,012tCO₂e in the PDD during the same period. As clarified by the PP that the increase is due to the following reasons:</p> <ol style="list-style-type: none"> 1) Actual value of GWP_{CH₄} is 25 for the second commitment, which is different from 21 used in the PDD. 2) The quantity of waste estimation was more conservative in the registered PDD. 3) Content of organic matter in waste components analysis is also higher than expected. <p>PP provided actual value of the quantity of waste from year 2010 till the end of this monitoring period (29/02/2016) and the waste components analysis for year 2013, 2014 and 2015 issued by Luohe Municipal Solid Waste Landfill Site for verification (12/13/).</p> <p>Take reason 1) into account: If apply 25 as the value of f GWP_{CH₄} in the ex-ante ER sheet downloaded from UNFCCC website ,the estimation emission reductions for this monitoring period would be change from 112,012 tCO₂e to 128,357 tCO₂e.</p>

	<p>Take reason 1) and reason 2) into account: Recalculating using the ex-ante ER sheet downloaded from UNFCCC website, the estimation emission reductions for this monitoring period would be change from 112,012 tCO₂e to 137,597tCO₂e.</p> <p>Take reason 1), reason 2), and reason 3) into account: the estimation emission reductions for this monitoring period would be change from 112,012 tCO₂e to 156,493 tCO₂e, which is higher than the actual emission reductions of in this monitoring period (149,590 tCO₂e). Thus, the assessment team has confirmed that the increase of the emission reduction for the monitoring period is due to the reasons claimed by the PP above.</p> <p>In addition, the verification team recheck the IRR of the project applying the actual values, the project IRR after tax is still lower than the benchmark. Thus it can be confirmed that the increase of the emission reduction during this monitoring period has no impact on the additionality of the project. CL-1 was closed.</p> <p>Remarks on difference from estimated value in registered PDD and the reason for the increase were clearly reported in the MR.</p>
Conclusion	<p>Corresponding to the paragraph 257 of CDM Project Standard version 09.0 and paragraph 385 (c) and (d) of VVS version 09.0, CCSC verification team confirms that:</p> <ul style="list-style-type: none"> • The verified emission reductions are higher than the estimated value in the monitoring period. The project participants have explained the cause of any increase in the actual GHG emission reductions achieved during the current monitoring period, and including all information (i.e. data and/or parameters) that is different from that stated in the registered PDD. • The variation is deemed to be reasonable.

E.8.7. Actual GHG emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

Means of verification	The current monitoring period starts from 01/04/2013. The verification team has reviewed the monitoring report to assess whether the GHG emission reductions or removals has been correctly calculated based on a pro-rata approach.
Findings	<p>For this monitoring period, the emission reductions are 0 tCO₂e during the first commitment period; and the emission reductions are 149,590 tCO₂e from 01/01/2013 onwards. The verification team can confirm the calculation is correct.</p> <p>No CARs/CLs/FARs raised in this section.</p>
Conclusion	<p>According to Para.254 of CDM Project Standard Version 09.0, CCSC verification team confirms that the project participants has calculated GHG emission reductions or removals based on a pro-rata approach in the following manner:</p> <ul style="list-style-type: none"> • The amount of emission reductions or removals achieved in the monitoring period for each GHG has be allocated proportionally to the duration of the period up to 31 December 2012 and the period from 1 January 2013 onwards before multiplying with the GWPs for the respective periods.

SECTION F. Internal quality control

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CCSC has taken the following quality control measures within the verification team and of the verification process according to relevant CCSC's internal procedures:

- The application review of the verification was conducted and concluded that CCSC has the accredited scope and competence to verify the Project with impartiality as well;
- The verification team was selected with due considerations given in terms of the competence and impartiality;
- The verification team carried out the verification work and compiled a verification report strictly following CCSC's Procedures for Implementation of Verification.

The verification report submitted by the verification team was subjected to a technical review and decision-making process, the technical reviewers and decision-makers are qualified and independent from the verification team. If any issue is raised during technical review and/or decision-making the same is to be discussed between the issue-raiser and the team leader as well as the PP. All issues must be satisfactorily addressed before the submission of the report for final approval. The persons who conducted the technical review and decision-making for the Project are shown in section B.2 this report and their Certificates of Competence can be found in Appendix 2 of this report.

The report approved by the authorized official of CCSC as the final report together with relevant documents are submitted to CDM EB through the UNFCCC dedicated web-platform for request for issuance (only if an unconditioned positive verification/certification opinion is concluded).

SECTION G. Verification opinion

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The verification team assigned by the China Classification Society Certification Company (CCSC) concludes that the CDM Project "Luohe MSW Landfill Site LFG Recovery to Power Project" in P.R.China, as described in the monitoring plan contained in the PDD (Version 06, 15/09/2011), and Monitoring Report (Version 02, 11/07/2016), meets all relevant requirements of the UNFCCC for CDM project activities including article 12 of the Kyoto Protocol, the modalities and procedures for CDM (Marrakesh Accords) and the subsequent decisions by the COP/MOP and CDM Executive Board. The verification is conducted in line with the VVS requirements.

The verification was executed by taking the following methods and in the following steps so far:

- Publication of the MR on the UNFCCC website (on 22/04/2016)
- Desk review of Monitoring Report Version 01 dated 18/04/2016 and related documents
- On-site inspection and interviews (on 30/05/2016)
- Raise corrective action requests (CARs) and clarification requests (CLs)
- Desk review of revised MR (Version 02, 11/07/2016) and responses to CARs/CLs/FARs
- Issue of this version of the verification report

The Project is implemented according to selected monitoring methodologies i.e. AMS-III.G Version 6.0 and AMS-I.D Version 16.0 and the monitoring plan contained in the PDD. The monitoring equipment was installed, calibrated and maintained in a proper manner. The monitoring system is in place and the Project is generating GHG emission reductions as a CDM project.

CCSC therefore issues the positive verification opinion expressed in the Certification statement in Section H.

SECTION H. Certification statement

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CCSC has carried out the 2nd periodic verification of the Project “Luohe MSW Landfill Site LFG Recovery to Power Project” (UNFCCC reference No.5238). This verification covers the period from 01/04/2013-29/02/2016 (first and last days included).

In the course of the verification two Corrective Action Requests (CARs) and one Clarification Requests (CLs) were raised and successfully closed. No Forward Action Request (FAR) was raised. The verification is based on the Monitoring Report Version 01 dated 18/04/2016, the revised Monitoring Report Version 02 dated 11/07/2016, the PDD and the registered validation report(/34/), ER Spreadsheet, and supporting documents available to CCSC.

As the result of the 2nd periodic verification, CCSC confirms that:

- The project activity has been implemented and operated as per the PDD and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place;
- The monitoring report and other supporting documents provided are complete in accordance with the latest applicable version of the completeness checklist for requests for issuance of CERs and in accordance with applicable CDM requirements;
- The actual monitoring systems and procedures are in place and functional, and comply with the monitoring systems and procedures described in the registered monitoring plan;
- The monitoring plan is in accordance with the applied methodologies, i.e., AMS-III.G Version 6.0 and AMS-I.D Version 16.0 ;
- The installed equipment for measuring parameters required for calculating emission reductions are calibrated appropriately.
- The GHG emission reductions are calculated without material omission, errors, misstatements and in a conservative and appropriate manner.

CCSC hereby certifies that the Project has achieved emission reductions as follows:

Actual emission reduction for the monitoring period up to (and including) 31 December 2012	0 tCO ₂ e
Actual emission reduction for the monitoring period from (and including) 1 January 2013	149,590 tCO ₂ e
Total amount of GHG emission reductions or net GHG removals by sinks achieved in this monitoring period (01/04/2013-29/02/2016)	149,590 tCO ₂ e

For and on behalf of CCSC



Authorized Signature

Name: TU Jianhua

Date: 20/07/2016

Appendix 1. Abbreviations

Abbreviations	Full texts
BE	Baseline emissions
BM	Build Margin
CAR	Corrective Action Request
CCSC	China Classification Society Certification Company
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification request
CM	Combined Margin
CO ₂ e	Carbon Dioxide Equivalent
DOE	Designated operational entity
DNA	Designated National Authority
EB	Executive Board
EF	Emission factor
ER	Emission reductions
ETN	Electricity Transaction Notes
FAR	Forward action request
GHG	Greenhouse gas(es)
IPCC	Intergovernmental Panel on Climate Change
LE	Leakage emissions
MERs	Monthly electricity reports
MP	Monitoring Plan
MR	Monitoring report
MW/MWh	Megawatt / Megawatt hour
OM	Operating Margin
PCP	Project Cycle Procedure
PDD	Project Design Document
PE	Project emissions
PO	Project owner
PP	Project Participant
PPA	Power Purchase Agreement
PS	Project Standard
S/N	Serial Number
tCO ₂ e	Tonne of carbon dioxide equivalent
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers



Appendix 9

CERTIFICATE OF COMPETENCE

Date of issue: 16/10/2015

Mr. Liu Peitao

Has been qualified in accordance with *CDM Personnel Competence Requirements and Professional Competence Evaluation Instructions* (CDMI0301) as

- ☒ CDM validator for Technical Area(s): TA1.2
☒ CDM verifier for Technical Area(s): TA1.2
☐ Technical expert for Technical Area(s): _____

Huang ShiYuan
CCSC General Manager



Appendix 9

CERTIFICATE OF COMPETENCE

Date of issue: 16/10/2015

Ms. Ma Zhiwei

Has been qualified in accordance with *CDM Personnel Competence Requirements and Professional Competence Evaluation Instructions* (CDMI0301) as

- ☐ CDM validator for Technical Area(s): _____
☐ CDM verifier for Technical Area(s): _____
☒ Technical expert for Technical Area(s): TA1.2/TA4.1

Huang ShiYuan
CCSC General Manager



Appendix 9

CERTIFICATE OF COMPETENCE

Date of issue: 16/10/2015

Mr. Shen Meng

Has been qualified in accordance with *CDM Personnel Competence Requirements and Professional Competence Evaluation Instructions* (CDMI0301) as

- ☒ CDM validator for Technical Area(s): TA1.1/TA1.2/TA5.2/TA13.1
☒ CDM verifier for Technical Area(s): TA1.1/TA1.2/TA5.2/TA13.1
☐ Technical expert for Technical Area(s): _____

Huang ShiYuan
CCSC General Manager



Appendix 9

CERTIFICATE OF COMPETENCE

Date of issue: 16/10/2015

Ms. Tong Yumei

Has been qualified in accordance with *CDM Personnel Competence Requirements and Professional Competence Evaluation Instructions* (CDMI0301) as

- ☒ CDM validator for Technical Area(s): TA1.1/TA1.2
☒ CDM verifier for Technical Area(s): TA1.1/TA1.2
☐ Technical expert for Technical Area(s): _____

Huang ShiYuan
CCSC General Manager



Appendix 9

CERTIFICATE OF COMPETENCE

Date of issue: 16/10/2015

Ms. Xie Fengjun

Has been qualified in accordance with *CDM Personnel Competence Requirements and Professional Competence Evaluation Instructions* (CDMI0301) as

- ☒ CDM validator for Technical Area(s): TA1.2/TA13.1/TA13.2
☒ CDM verifier for Technical Area(s): TA1.2/TA13.1/TA13.2
☐ Technical expert for Technical Area(s): _____

Huang ShiYuan
CCSC General Manager

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1.	Shanghai BCCY New Power Industry Co.,Ltd	Monitoring Report Version 01	18/04/2016	PP
2.	Shanghai BCCY New Power Industry Co.,Ltd	Final monitoring report Version 02	11/07/2016	PP
3.	Shanghai BCCY New Power Industry Co.,Ltd	ER spreadsheet Version 01	18/04/2016	PP
4.	Shanghai BCCY New Power Industry Co.,Ltd	Diagram of power connection system of the Project	/	PP
5.	Shanghai BCCY New Power Industry Co.,Ltd	Signed Power Purchase Agreement (PPA) with grid company whose validity periods cover this monitoring period	20/05/2013-31/12/2018	PP
6.	Shanghai BCCY New Power Industry Co.,Ltd	Operation log of the Project	/	PP
7.	Shanghai BCCY New Power Industry Co.,Ltd	Nameplates of the turbine, generator	/	PP
8.	Shanghai BCCY New Power Industry Co.,Ltd	Nameplates of the monitoring equipments	/	PP
9.	Luohe Jiayuan Decoration Co., Ltd	Construction permission letter	/	PP
10.	Shanghai BCCY New Power Industry Co.,Ltd	Meter reading records of the Project(daily and monthly)	/	PP
11.	Grid company	Statement issued by the grid company for the electricity exported and imported	/	PP
12.	Luohe Municipal Solid Waste Landfill Site	Quantity of waste from year 2010 till the end of this monitoring period (31/01/2016)	/	PP
13.	Luohe Municipal Solid Waste Landfill Site	Waste components analysis for year 2013, 2014 and 2015	/	PP
14.	Industry standard	JJG 596-2012 Verification Regulation of Electrical Energy Meter with Electronics	/	Others
15.	Industry standard	JJG 693-2001 Verification Regulation of Alarmer Detectors of Combustible Gas	/	Others
16.	Industry standard	JJG640-1994 Verification Regulation of differential pressure type flowmotor	/	Others
17.	Institute of Metrology of Henan Province	Calibration reports of the electricity meters(E1 and E2) in year 2012,2013,2014,2015	/	PP
18.	Electric Energy Meter Metrology Centre of Luohe Power Supply Company of Electric Power of HeNan	Calibration reports of the electricity meters(E3) in year 2012,2013,2014,2015		
19.	Calibration Entity	Calibration reports of the Flow meter		

	Institute of Metrology of Henan Province	F in 2012		
20.	Calibration and Testing Center For Gas Flowmetre of the Quality and Technology Supervision Bureau of Jiangsu	Calibration reports of the Flow meter F in year 2013,2014,2015	/	PP
21.	Shanghai Institute of Measurement and Testing Technology National Center of Measurement and Test for East Chian	Calibration reports of the Flow meter F1,F2 and F3 in year 2012		PP
22.	Calibration and Testing Center For Gas Flowmetre of the Quality and Technology Supervision Bureau of Jiangsu	Calibration reports of the Flow meter F4 in year 2013,2014,2015		PP
23.	Calibration and Testing Center For Gas Flowmetre of the Quality and Technology Supervision Bureau of Jiangsu	Calibration reports of the Flow meter F1, F2 and F3 in year 2013, 2014, and 2015.		PP
24.	Shenzhen Academy of Metrology and Quality Inspection National Hi-tech Metrology	Calibration reports of the Gas analyzer in year 2012,2013, 2014, and 2015.	/	PP
25.	General Administration of quality and technical supervision, inspection and Quarantine of the people's Republic of China	Certificate of metrological authorization to Institute of Metrology of Henan Province, authorized by General Administration of quality and technical supervision, inspection and Quarantine of the people's Republic of China, (Guo)FaJi(2007)0103 and (Guo)FaJi(2012)0103 1	Valid from 29/11/2007 to 30/11/2012 and Valid from 29/11/2012 to 30/11/2017	PP
26.	Shanghai Administration of Quality and Technology Supervision	Certificate of metrological authorization to Shanghai measurement and Testing Technology Research Institute, (Guo)FaJi(2007)01019hao	Valid from 29/11/2007 to 30/11/2012	PP
27.	Jiangsu Administration of Quality and Technology Supervision	Certificate of metrological authorization to Calibration and Testing Center For Gas Flowmetre of the Quality and Technology Supervision Bureau of Jiangsu by Jiangsu Administration of Quality and Technology Supervision, (Su)FaJi(2012)2035	Valid from 01/01/2012 to 31/12/2015	PP
28.	Jiangsu Administration	Certificate of metrological	Valid from	PP

	of Quality and Technology Supervision	authorization to Calibration and Testing Center For Gas Flowmetre of the Quality and Technology Supervision Bureau of Jiangsu by Jiangsu Administration of Quality and Technology Supervision, (Su)FaJi(2015)2035-1hao	20/07/2015 to 19/072018	
29.	Guangdong Administration of Quality and Technology Supervision	Certificate of metrological authorization to Shenzhen Academy of Metrology and Quality Inspection National Hi-tech Metrology, authorized by Guangdong Administration of Quality and Technology Supervision (Yue)FaJi(2009)01002	Valid from 25/06/2011 to 26/06/2016	PP
30.	Guangdong Administration of Quality and Technology Supervision	Certificate of metrological authorization to Quality Inspection National Hi-tech Metrology, authorized by Guangdong Administration of Quality and Technology Supervision (Yue)FaJi(2009)01002	Valid from 07/08/2009 to 06/08/2014	PP
31.	Shanghai BCCY New Power Industry Co.,Ltd	CDM Monitoring & Management Manual	/	PP
32.	Shanghai BCCY New Power Industry Co.,Ltd	Internal Training Records and Qualification Certificate of Operation Staff	/	PP
33.	Shanghai BCCY New Power Industry Co.,Ltd	Registered PDD Version 06	15/09/2011	PP
34.	CQC	Validation report Version 2.0	06/07/2012	PP
35.	UNFCCC CDM-EB	Methodologies AMS-I.D Version 16.0	/	Others
36.	UNFCCC CDM-EB	Methodologies AMS-III.G Version 6.0	/	Others
37.	UNFCCC CDM-EB	Validation and verification standard Version 09.0	20/02/2015	Others
38.	UNFCCC CDM-EB	Project standard Version 09.0	20/02/2015	Others
39.	UNFCCC CDM-EB	Project cycle procedure Version 09.0	20/02/2015	Others
40.	UNFCCC CDM-EB	Monitoring report form Version 05.1	/	Others

Appendix 4. Clarification requests, corrective action requests and forward action requests

Table 1. Remaining FAR from validation and/or previous verification

FAR ID	N/A	Section no.	N/A	Date : N/A
Description of FAR				
N/A				
Project participant response				Date : N/A
N/A				
Documentation provided by project participant				
N/A				
DOE assessment				Date: N/A
N/A				

Table 2. CL from this verification

CL ID	CL-1	Section no.	E.8.6	Date: 20/06/2016
Description of CL				
In was verified that the actual emission reductions during the morning period significant higher than the estimated value 112,012tCO ₂ e in the PDD during the same period. Please provide remarks on difference				
Project participant response				Date: 23/06/2016
The actual emission reductions of Luohe is 149,590 tCO ₂ e in this monitoring period, which is 33.55% higher than the estimated value 112,012tCO ₂ e in the PDD during the same period. The actual emission reductions increase due to following reasons: 1) Actual value of GWP _{CH₄} is 25 for the second commitment, which is different from 21 used in the PDD. 2) the quantity of waste estimation was more conservative in the registered PDD, actual quantity of waste is much higher than expected; 3) Content of organic matter in waste components analysis is also higher than expected,ERs of Luohe project are claimed for both methane combustion and power displacement. The reason listed above result in the ERs increase of methane combustion during this monitoring period. The actual quantity of net electricity exported to the Grid is approximate to the quantity of the net electricity estimated in the PDD, but lower than it. And the IRR used the actual quantity of the net electricity to recalculate is lower than the benchmark.				
Documentation provided by project participant				
MR version 02 of Luohe and ER sheet –Luohe- based on actual data are provided.				
DOE assessment				Date: 07/07/2016

As reported in the version 02 of the MR, the actual emission reductions of Luohe is 149,590 tCO₂e in this monitoring period, which is 33.5% higher than the estimated value 112,012tCO₂e in the PDD during the same period. As clarified by the PP that the increase is due to the following reasons:

1) Actual value of GWP_{CH₄} is 25 for the second commitment, which is different from 21 used in the PDD.

2) The quantity of waste estimation was more conservative in the registered PDD.

3) Content of organic matter in waste components analysis is also higher than expected.

PP provided actual value of the quantity of waste from year 2010 till the end of this monitoring period (31/01/2016) and the waste components analysis for year 2013, 2014 and 2015 issued by Luohe Municipal Solid Waste Landfill Site for verification.

Take reason 1) into account: If apply 25 as the value of f GWP_{CH₄} in the ex-ante ER sheet downloaded from UNFCCC website ,the estimation emission reductions for this monitoring period would be change from 112,012 tCO₂e to 128,357 tCO₂e.

Take reason 1) and reason 2) into account: Recalculating using the ex-ante ER sheet downloaded from UNFCCC website, the estimation emission reductions for this monitoring period would be change from 112,012 tCO₂e to 137,597tCO₂e.

Take reason 1), reason 2), and reason 3) into account: the estimation emission reductions for this monitoring period would be change from 112,012 tCO₂e to 156,493 tCO₂e, which is higher than the actual emission reductions of in this monitoring period (149,590 tCO₂e). Thus, the assessment team has confirmed that the increase of the emission reduction for the monitoring period is due to the reasons claimed by the PP above.

In addition, the verification team recheck the IRR of the project applying the actual values, the project IRR after tax is still lower than the benchmark. Thus it can be confirmed that the increase of the emission reduction during this monitoring period has no impact on the additionality of the project. **CL-1** was closed.

Table 3. CAR from this verification

CAR ID	CAR-1	Section no.	E.6.2	Date :20/06/2016
Description of CAR				
All the values reported in section D.2 are not consistent with values verified. Please clarify and take correction.				
Project participant response				Date :23/06/2016
The values in section D.2 is other project and wrongly reported. In the revised MR, all the values have been corrected.				
Documentation provided by project participant				
MR version 02 of Luohe is provided.				
DOE assessment				Date 07/07/2016
The assessment team has reviewed Daily and monthly operating records of Luohe LFG Recovery to Electricity Project provided by the PP and the revised MR, it was found that the MR was revised and the values reported in the MR are consistent with the values verified. Thus, CAR-1 was closed.				

CAR ID	CAR-2	Section no.	E.7	Date :20/06/2016
Description of CAR				
In Table C.2 Detailed calibration information, some of the dates reported are not consistent with the calibration reports provided for verification. Please recheck and take correction.				
Project participant response				Date :23/06/2016
The wrong calibration dates in Table C.2 have been corrected upon the calibration reports.				
Documentation provided by project participant				
MR version 02 of Luohe is provided.				
DOE assessment				Date :07/07/2016
The assessment team reviewed the revised MR and confirmed the wrongly reported dates are corrected . CAR-2 was closed.				

Table 4. FAR from this verification

FAR ID	N/A	Section No.	N/A	Date : N/A
Description of FAR				
N/A				
Project participant response				Date : N/A
N/A				
Documentation provided by project participant				
N/A				
DOE assessment				Date : N/A
N/A				

Document information

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