



Industrie Service

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Certification Report  
PANGAEA GREEN ENERGY S.R.L.

Periodic Verification of the Registered CDM Project  
“Quezon City Controlled Disposal Facility Biogas Emission  
Reduction Project”

UNFCCC 1258-CDMP

Monitoring period 2: 01-09-2008 to 30-06-2009

Report No. 600500356

**28 February 2011**

TÜV SÜD Industrie Service GmbH  
Carbon Management Service  
Westendstrasse 199 - 80686 Munich - GERMANY

## 1 CERTIFICATION STATEMENT

TÜV SÜD Industrie Service GmbH has performed the second periodic verification of the registered CDM project: “Quezon City Controlled Disposal Facility Biogas Emission Reduction Project”. The project consists of the extraction, collection, processing and flaring of biogas (landfill gas) emissions from the Quezon City controlled disposal facility and use for electricity generation or flaring when electricity generation is not possible. The project thus avoids methane emissions to the atmosphere. The verification is based on the currently valid documentation of the UN Framework Convention on Climate Change (UNFCCC).

The management of the Pangea Green Energy S.r.l is responsible for the preparation of the GHG emissions data and the reported GHG emission reductions on the basis set out within the project’s Monitoring Plan indicated in the registered PDD version 11, 30-11-2007 and the applied methodologies ACM0001 version 5 and AMS-I.D version 10.

Based on the assessment carried out, the verifier confirms that:

- The development and the maintenance of records and reporting procedures in accordance with the registered monitoring plan.
- The project has been implemented and operated in accordance with the description given in the registered PDD (version 11, 30-11-2007, registration date 01-02-2008).
- The project is partly implemented as described in the registered PDD. As described in the PDD, phase I of the project is in progress i.e. landfill is being flared and electricity generated for on-site consumption only. As per the registered PDD, phase II which is to install a bigger biogas electrical engine for the conversion of a portion of the methane to electricity that will be delivered to the local grid is planned for the 3<sup>rd</sup> year;
- The monitoring plan complies with the applied methodologies (ACM0001 version 5 and AMS-I.D version 10) and the monitoring has been carried out as exactly following the monitoring plan. A Request for Deviation (I-DEV0273) was submitted by TUV SUD regarding monitoring of  $T_{\text{flare}}$  and  $LFG_{\text{TOTAL,y}}$  on 27/11/2009 as given and was approved in EB 52.
- The monitoring plan in the monitoring report (Version 09 / 10-02-2011) is as per the PDD

Installed equipments essential for generating emission reductions run reliably and the meters are calibrated appropriately. The project is generating emission reductions as a CDM project. The verifier can confirm that the GHG emission reductions are calculated without material misstatements. Our opinion refers to the project’s GHG emissions and resulting GHG emission reductions reported, both determined due to the valid and registered project’s baseline, its monitoring plan and its associated documents.

Reporting period: From 01-09-2008 to 30-06-2009

Verified emissions in the above reporting period:

Baseline emissions:	75 390	t CO <sub>2</sub> e
Project emissions:	14	t CO <sub>2</sub> e
Leakage emission:	0	t CO <sub>2</sub> e
Emission reductions:	75 376	t CO <sub>2</sub> e

Hence, TÜV SÜD Industrie Service GmbH requests the CDM Executive Board to issue CERs equal to the verified amount – 75 376 t CO<sub>2</sub> equivalents - of reductions of anthropogenic emissions by sources of greenhouse gases.

**PERIODIC VERIFICATION**

“Quezon City Controlled Disposal Facility Biogas Emission Reduction Project”



Industrie Service

Munich, 28-02-2011

A handwritten signature in blue ink that reads "Thomas Kleiser".

Thomas Kleiser

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**Certification body “climate  
and energy”**

Pune, 28-02-2011

A handwritten signature in black ink that reads "Bratin Roy".

Bratin Roy

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**Assessment Team Leader**