

CDM Project Activity Registration and Validation Report Form

(By submitting this form, designated operational entity confirms that the proposed CDM project activity meets all validation and registration requirements and thereby requests its registration)

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Section 1: Request for registration				
Name of the designated operational entity (DOE) submitting this form	Det Norske Veritas Certification Ltd. (DNV)			
Title of the proposed CDM project activity (Section A.2 of the attached CDM-PDD) submitted for registration	ESTRE Itapevi Landfill Gas Project" (EILGP)			
Project participants (Name(s))	ESTRE – Empresa de Saneamento e Tratamento de Resíduos Ltda. and Econergy Brasil			
Sector in which project activity falls	Waste handling and disposal			
Is the proposed project activity a small-scale activity?	e No			
Section 2: Validation report				
List of documents to be attached to this validation report (please check mark):				

- ☑ The CDM-PDD of the Project activity
- An explanation by the submitting designated operational entity of how it has taken due account of comments on validation requirements received, in accordance with the CDM modalities and procedures, from Parties, stakeholders and UNFCCC accredited non-governmental organizations (Note: Included in DNV's Validation Report (DNV report 2006-0773, rev. 01));
- □ The written approval of voluntary participation from the designated national authority of each Party involved, including confirmation by the host Party hat the project activity assist it in achieving sustainable development:
 - (Attach a list of all Parties involved and attach the approval(in alphabetic order))
- ☑ Other documents, including any validation protocol used in the validation.
 - DNV's Validation Report (DNV report 2006-0773, rev. 01), including a validation protocol and a list of person interviewed by DNV validation team during the validation process.
- Information on when and how the above validation report is made publicly available.
- Banking information on the payment of the non-reimbursable registration fee.
- A statement signed by all project participants stipulating the modalities of communicating with the Executive Border and the secretariat in particular with regard to instructions regarding allocation of CERs at issuance.

Executive Summary and Introduction, including

- Description of the proposed CDM project activity
- Scope of validation process (include all documentation that has been reviewed and name persons that have been interviewed as part of the validation, as applicable)
- DOE Validation team (list of all persons involved in the validation, describing functions assumed in the validation)

The objective of the "ESTRE Itapevi Landfill Gas Project" (EILGP)" is to capture and flare the landfill gas produced at the "Centro de Gerenciamento de Resíduos (CGR)" Itapevi landfill located in the west of the metropolitan region of São Paulo in Itapevi municipality, São Paulo State, Brazil, to avoid emissions of methane to the atmosphere. The project involves the development of a collection pipeline network and a flaring system. The collection system will be built using the existing wells. The wells will be covered and connected to a main pipeline to transport the landfill gas to the flare. A blower will be installed in order to increase the amount of landfill gas collected. The forecasted amount of GHG emission reductions from the project is estimated to be 748 239 tCO2 equivalents (tCO2e) during the first renewable 7-year crediting period (with the potential of being renewed twice), resulting in forecasted average annual emission reductions of 106 891 tCO2e. Based on DNV's experience with the verification of emission reductions from landfill projects, the methane generation potential and collection efficiency are on the higher side. Also considering the fact that the IPCC first order decay model has a high degree of uncertainty, DNV is thus of the opinion that the project would not achieve the forecast emission reductions. However, this is only an estimate and the actual amount of methane destroyed will be monitored ex-post.

The validation scope is an independent and objective review of the Project Design Document (PDD). The PDD was reviewed against Kyoto Protocol criteria for the CDM, the CDM modalities and procedures as agreed in the Marrakech Accords and relevant decision by the CDM Executive Board. The validation team has, based on the recommendation in the IETA/PCF Validation and Verification Manual, employed a risk-based approach, focusing on the identification of significant risks for the project implementation and the generation of CERs.

The following documents were assessed:

ESTRE Itapevi Landfill Gas Project PDD Version 1 (17 March 2006);

ESTRE Itapevi Landfill Gas Project PDD Version 2 (05 April 2006);

ESTRE Itapevi Landfill Gas Project PDD Version 3 (29 June 2006);

ESTRE Itapevi Gas Project PDD Version 4 (20 July 2006);

Spreadsheet of Calculation of Combined Margin (ONS database SSC 2002-2004 . 2006-05-23);

Spreadsheets for the calculation of the Central de Resíduos do Recreio Landfill Baseline v3 2006-06-30;

International Emission Trading Association (IETA) & the World Bank's Prototype Carbon Fund (PCF): Validation and Verification Manual. http://www.vvmanual.info;

Approved Consolidated Baseline and Monitoring Methodology ACM0001: "Consolidated baseline and monitoring methodology for landfill gas project activities" Version 03 of 19 May 2006;

Approved Baseline and Monitoring Methodology ACM0002: "Consolidated methodology for grid-connected electricity generation from renewable sources" version 6 of 19 May 2006;

CDM Executive Board: Tool for the demonstration and assessment of additionality. Version 02 of 28 November 2005.

The following persons were interviewed:

Eduardo Cardoso Filho - Econergy

The validation team consisted of the following personnel:

Mrs. Cintia Dias
Mr. Luis Filipe Tavares
Mr Raphael Tavares
Mr. K.V.Raman

DNV Rio de Janeiro
DNV Rio de Janeiro
DNV Rio de Janeiro
CDM auditor
Technical reviwer

For further details, please refer to the "Introduction" and "References" Sections of DNV's Validation Report (DNV report 2006-0773, rev. 01)

Description of methodology for carrying out validation

- Review of CDM-PDD and additional documentation attached to it
- Assessment against CDM requirements (e.g. by use of a validation protocol)
- Report of findings by the DOE, e.g. by use of type of findings (e.g. corrective action requests, clarifications or observations). Please explain the way findings are "labelled" during validation.
- Include statements or assessments in the section "Conclusions, final comments and validation opinion" below.

The validation consisted of the following three phases:

- i) a desk review of the project design documents;
- ii) follow-up interview with project stakeholders;
- iii) the resolution of outstanding issues and the issuance of the preliminary validation report and opinion.

The PDD (version 01 of 17 March 2006) submitted by ESTRE — Empresa de Saneamento e Tratamento de Resíduos and Econergy Brasil. Moreover, a revised version of the PDD (version 02 dated 05 April 2006), which was submitted to address DNV's initial validation findings, was assessed by DNV. After that, a new version of the PDD (version 03 of 29 June 2006) was sent and assessed by DNV. The only changes in the last version of PDD were a version of the methodologies (ACM0001 and ACM0002) and the starting date of project.

The PDD (version 01 of 17 March 2006) submitted by ESTRE — Empresa de Saneamento e Tratamento de Resíduos and Econergy Brasil and the subsequent revisions 02 dated 17 May 2006, version 03 dated 19 June 2006 /3/, and the latest version 4 dated 20 July 2006 were assessed by DNV. Additional documents such as the grid emission factor calculations, emission reduction calculations, environmental licences and the letters sent to local stakeholders, were assessed during the validation. In addition, a spreadsheet containing calculations of the combined margin grid electricity emission factor applied by the project and other documents, such as the environmental licences and licence requirements as well as the letters sent to local stakeholders, were assessed.

On May 2006, DNV performed interviews with a representative of Econergy, to confirm and to resolve issues identified in the document review.

In order to ensure transparency, a validation protocol has been customized for the project, according to the Validation ad Verification Manual. The protocol shows, in a transparent manner, criteria (requirements), means of verification and the results from validation the identified criteria.

Findings established during the validation can either be seen as a non-fulfilment of validation criteria or where a risk to the fulfilment of project objectives is identified. Such findings are termed Corrective Action Requests (CAR). The term Clarification may be used where additional information is needed to fully clarify an issue. The Corrective Action Requests and requests for Clarification raised by the validation team were resolved, through communications with the project participants, to DNV's satisfaction.

To guarantee the transparency of the validation process, the concerns raised by DNV and the response provided by the project participants are documented in Table 3 of the Validation Protocol in Appendix A of DNV's Validation Report (DNV report 2006-0773, rev. 01).

For further details, please refer to the "Methodology" Section of DNV's Validation Report (DNV report

2006-0773, rev. 01) and the IETA/PCF Validation ad Verification Manual (www.vvmanual.info)

Explanation by the submitting designated operational entity of how it has taken due account of comments on validation requirements received, in accordance with the CDM modalities and procedures, from Parties, stakeholders and UNFCCC accredited non-governmental organizations;

- Description of how and when the PDD was made publicly available
- Description of how comments were received and made publicly available
- Explanation of how due account has been taken of comments received
- Compilation of all comments received (Identify the submitter)

The PDD of 17 March 2006 was made publicly available on DNV's climate change website (www.dnv.com/certification/climatechange) and Parties, stakeholders and NGOs were through the CDM website invited to provide comments during a 30 days period from 22 March 2006 to 20 April 2006. One comment was received, made publicly available and the comment received was sufficiently taken into account

Conclusions, final comments and validation opinion

- Provide conclusions on each requirement under paragraph 37 of the CDM modalities and procedures, describing how these requirements have been meet. This shall include assessments and findings (e.g. corrective action requests, clarifications or observations) in relation to each requirement, including a confirmation that all issues raised have been addressed to the satisfaction of the DOE.
- Final comments and validation opinion

Det Norske Veritas Certification Ltd. (DNV) has performed a validation of the ESTRE Itapevi Landfill Gas Project" (EILGP), in the west of the metropolitan region of São Paulo in Itapevi municipality, São Paulo State, Brazill. The validation was performed on the basis of UNFCCC criteria for CDM project activities and relevant Brazilian criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The project participants are ESTRE – Empresa de Saneamento e Tratamento de Resíduos and Econergy Brasil. The host Party Brazil meets all relevant participation requirements. No participating Annex I Party is yet identified.

The project objective is to capture and flare the landfill gas produced at "Centro de Gerenciamento de Resíduos (CGR)" Itapevi, to avoid emissions of methane to the atmosphere. The technology to be employed will be the improvement of landfill gas collection and flaring, through the installation of an active recovery system composed by a collection and transportation pipeline network and a flaring system.

The project applies the approved baseline and monitoring methodology ACM0001, i.e. "Consolidated baseline and monitoring methodology for landfill gas project activities". The baseline methodology has been correctly applied and the assumptions made for the selected baseline scenario are sound. It is sufficiently demonstrated that the project is not a likely baseline scenario and that emission reductions attributable to the project are additional to any that would occur in the absence of the project activity.

The monitoring methodology has been correctly applied. The monitoring plan sufficiently specifies the monitoring requirements.

By burning of methane of landfill gas the project results in reductions of CH4 emissions that are real, measurable and give long-term benefits to the mitigation of climate change. Given that the project is operated as designed, the project is likely to achieve the estimated amount of emission reductions.

Local stakeholders, such as the Municipal Government, the state and municipal agencies, the Brazilian forum of NGOs, neighbouring communities and the office of the attorney general, were invited to comment on the project, in accordance with the requirements of Resolution 1 of the Brazilian DNA. Two comments were received, requesting information about the project. It was verified that the comments received were sufficiently taken into account. Copies of the letters sent to the local stakeholders were verified during the follow up interview.

In summary, it is DNV's opinion that the "ESTRE Itapevi Landfill Gas Project" (EILGP)", as described in the revised and resubmitted project design document of 20th July 2006, meets all relevant UNFCCC requirements for the CDM and all relevant host country criteria and correctly applies the baseline and monitoring methodology. Hence, DNV will request the registration of the "ESTRE Itapevi Landfill Gas Project" (EILGP)" as CDM project activity.

For further details, please refer to the "Validation Findings" Section and Table 1 of the Validation Protocol in Appendix A of DNV's Validation Report (DNV report 2006-0773, rev. 01).

The DOE declares herewith that in undertaking the validation of this proposed CDM project activity it has no financial interest related to the proposed CDM project activity and that undertaking such a validation does not constitute a conflict of interest which is incompatible with the role of a DOE

under the CDM.				
By submitting this validation report, the DOE confirms that all validation requirements are met.	Prior to the submission of this validation report to the CDM Executive Board, DNV will have to receive the written approval of voluntary participation from the DNA of Brazil, including the confirmation that the project assists it in achieving sustainable development.			
Name of authorized officer signing for the DOE	Michael Lehmann Michael Chma			
Date and signature for the DOE	25 July 2006			
Section below to be filled by UNFCCC secretariat				
Date when the form is received at UNFCCC secretariat				
Date at which the registration fee has been received				
Date at which registration shall be deemed final				
Date of request for review, if applicable				
Date and number of registration		Date	Number	