



### 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)*

#### Section 1: Request for registration

<b>Name of the designated operational entity (DOE) submitting this form</b>	Det Norske Veritas Certification (DNV Certification)
<b>Title of the proposed CDM project activity (Section A.2 of the attached CDM-PDD) submitted for registration</b>	ESTRE'S Paulinia Landfill Gas Project (EPLGP)
<b>Project participants (Name(s))</b>	Empresa de Saneamento e Tratamento de Resíduos Ltda (ESTRE) Econergy Brasil
<b>Sector in which project activity falls</b>	Waste handling and disposal
<b>Is the proposed project activity a small-scale activity?</b>	No.

#### Section 2: Validation report

<b>List of documents to be attached to this validation report (please check mark):</b>	
<input checked="" type="checkbox"/> The CDM-PDD of the Project activity <input checked="" type="checkbox"/> 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 (included in DNV Certification's Preliminary Validation Report (DNV Report No. 2005-0105, rev. 02); <input type="checkbox"/> The written approval of voluntary participation from the designated national authority of each Party involved, including confirmation by the host Party that the project activity assist it in achieving sustainable development: ▪ (Attach a list of all Parties involved and attach the approval(in alphabetic order)) <input checked="" type="checkbox"/> Other documents, including any validation protocol used in the validation. ▪ DNV Certification's Preliminary Validation Report (DNV Report No. 2005-0105, rev. 02), including a validation protocol and a list of person interviewed by DOE validation team during the validation process. <input checked="" type="checkbox"/> Information on when and how the above validation report is made publicly available. <input type="checkbox"/> Banking information on the payment of the non-reimbursable registration fee. <input type="checkbox"/> A statement signed by all project participants stipulating the modalities of communicating with the Executive Board 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)**

ESTRE'S Paulinia Landfill Gas Project is located in the municipality of Paulinia, around 130 km north of São Paulo city – São Paulo State - Brazil. The project involves the capture of landfill gas emitted from solid municipal waste of the metropolitan area of São Paulo city, and municipalities around Campinas city and gas destroy through flare.

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 rules and modalities 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 validation team consist of the following personnel:

Mr Alexandre Ribeiro Valle	DNV Belo Horizonte
Mrs Susanne Haefeli	DNV Oslo
Mr Einar Telnes	DNV Oslo

The following documents were reviewed:

Econergy: Project Design Document for the ESTRE's Paulinia Landfill Gas Project (EPLGP). August 2004.

Econergy: Project Design Document for the ESTRE's Paulinia Landfill Gas Project (EPLGP). December 2004

Econergy: Project Design Document for the ESTRE's Paulinia Landfill Gas Project (EPLGP). April 2005

ESTRE: Environment Management System (ISO 14001) procedures, documents and records. Letters for local stakeholders

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

Approved Baseline Methodology AM 0003: Simplified Financial Analysis for Landfill Gas Capture Projects. Version 01 of 12 January 2004.

Approved Monitoring Methodology AM0003: Simplified Financial Analysis for Landfill Gas Capture Projects Version 01 of 12 January 2004.

The following persons were interviewed:

Alex Schlosser (ESTRE)  
Helvécio Borges Guimarães (ECONERGY)

For further details, please refer to the "Introduction" Section of DNV Certification's Preliminary Validation Report (DNV Report No. 2005-0105, rev. 02).

### 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 of the project started in August 2004. The Validation consists of the following three phases:

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

The original and revised versions of the project design document (PDD) for the ESTRE’S Paulinia Landfill Gas Project submitted by the project participants were reviewed. Additional background documents related to the project design and the baseline were also consulted.

On 8 December 2004, DNV performed interviews with Econergy and Estre and carried out at a site visit at the ESTRE landfill at Paulinia, São Paulo state, to confirm selected information 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 and 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 7(seven) requests for Clarification and 3(three) Corrective Action Requests raised by the validation team were resolved through communication with the project participants. To guarantee the transparency of validation process, the concerns raised by DNV Certification and the response provided by the project participants are documented in Table 3 of Validation Protocol in Appendix A of DNV Certification’s Preliminary Validation Report of 5 January 2005.

For further details, please refer to the “Methodology” Section DNV Certification’s Preliminary Validation Report (DNV Report No. 2005-0105, rev. 02) and the IETA/PCF Validation and Verification Manual ([www.vvmanual.info](http://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 the ESTRE'S Paulinia Landfill Gas Project was on published on DNV Certification's Climate Change website ([www.dnv.com/Certification/ClimateChange](http://www.dnv.com/Certification/ClimateChange)) and comments by Parties, stakeholders and NGOs were invited through the CDM website from 24 December 2004 to 23 January 2005. No comments were received.

### **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 Certification) has validated the ESTRE's Paulinia Landfill Gas Project at Paulinia, São Paulo State, Brazil (hereafter called "the project"), proposed by ESTRE and Eonergy for registration under the CDM. 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 proposes to collect and combust or flare landfill gas (LFG) captured at the ESTRE Paulinia Landfill. By flaring LFG, the project results in the reduction of CH<sub>4</sub> emissions that is real, measurable and gives long-term benefits and that is additional to what would have occurred in the absence of the project. Given that the project is implemented as designed, the project is likely to achieve the estimated amount of emission reductions.

The project is not expected to have considerable environmental impacts. ESTRE's landfill has an Environmental Licence. The Environmental License for LFG recovery and flaring has not yet been obtained. Given that the flaring of landfill gas has little adverse or no different environmental impacts, it is likely that the licence will be obtained when the project is implemented. The first period verification of the project must verify that this licence was eventually obtained.

The project is in line with current sustainable development priorities of Brazil. Nevertheless, the Brazilian DNA has not yet formally approved the project and has not yet confirmed the project's contributin to sustainable development.

The project applies the approved baseline and monitoring methodology AM0003, i.e. "Simplified financial analysis for landfill gas capture projects". The baseline methodology has been applied correctly 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 plan sufficiently specifies the monitoring requirements of the main project indicators.

Local stakeholder comments were invited according to the Brazilian DNA Resolution 1 and Parties, stakeholders and NGOs were invited to comment on the validation requirements. No comments

have been received.

In summary, the ESTRE's Paulinia Landfill Gas Project (EPLGP) meets all present and relevant UNFCCC criteria and correctly applies the approved baseline and monitoring methodologies ACM0003. However, the project has not yet been approved by the DNA of the participating Party, i.e. Brazil, and the DNA of Brazil has not yet confirmed the project's contribution to sustainable development.

For further details, please refer to the "Validation Findings" Section and Table 1 of the Validation Protocol in Appendix A of DNV Certification's Preliminary Validation Report (DNV Report No. 2005-0105, rev. 02).

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.

NB: This is a preliminary validation only and a request for registration is subject to the following condition:

The Brazilian DNA must approve the project, including a confirmation that the project assists Brazil in achieving sustainable development.

Name of authorized officer signing for the DOE

Michael Lehmann

Date and signature for the DOE

4 April 2005 *Michael Lehmann*

**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