



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

Name of the designated operational entity (DOE) submitting this form	Det Norske Veritas Certification (DNV Certification)
Title of the proposed CDM project activity (Section A.2 of the attached CDM-PDD) submitted for registration	Marca Landfill Gas to Energy Project
Project participants (Name(s))	Marca Ltda (Brasil) e EcoSecurities (Brasil)
Sector in which project activity falls	Waste handling and disposal
Is the proposed project activity a small-scale activity?	No.

Section 2: Validation report

List of documents to be attached to this validation report (please check mark):	
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> The CDM-PDD of the Project activity <input 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; <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: <ul style="list-style-type: none"> <input type="checkbox"/> (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. <ul style="list-style-type: none"> <input type="checkbox"/> Preliminary Validation Report of 20 May 2004 (DNV report 2004-0632, version 01), including a validation protocol and a list of person interviewed by DOE validation team during the validation process. <input 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 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 Marca Landfill Gas to Energy Project, located on Cariacica Municipality – Espírito Santo State, involves the capture of landfill gas emitted from solid municipal waste of the metropolitan area of Vitória, and municipalities of Cariacica, Serra and others, and gas destroy through flare or burning on electric energy generator.

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 consists of the following personnel:

Mr. Luis Filipe Aboim Tavares	DNV Rio de Janeiro
Ms. Susanne Haefeli	DNV Oslo
Mr. Michael Lehmann	DNV Oslo

For further details, please refer to the “Introduction” Section (pages 1-2) of DNV Certification’s Preliminary Validation Report of 20 May 2004.

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 February 2004 and will be concluded end of June 2004 shortly after the public stakeholder consultation process is concluded on 23 June 2004. The Validation consisted of the following three phases:

- a desk review of the Project design and the baseline and monitoring methodology (March 2004 to April 2004);
- follow-up interview with Project stakeholders (19 March 2003);
- the resolution of outstanding issues and the issuance of the preliminary validation report and opinion (April 2004 – May 2004)

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

On 19 March 2003, DNV performed interviews with Ecosecurities and Marca and carried out a site visit at the Cariacica landfill at Vitória, Espírito Santo 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 4(four) 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 20 May 2004.

For further details, please refer to the "Methodology" Section (pages 2-4) of DNV Certification's Preliminary Validation Report of 06 May 2004 and the IETA/PCF Validation and 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 the Marca Landfill Gas to Energy Project was on 24 May 2004 published on DNV Certification's Climate Change website (www.dnv.com/Certification/ClimateChange) and comments by Parties, stakeholders and NGOs were invited through the CDM website from 24 May 2004 to 23 June 2004. Until now, 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 met. 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 Ltda. (DNV Certification) has validated the Marca Landfill Gas to Energy Project at Cariacica, Espírito Santo State, Brazil (hereafter called "the Project"), proposed by Marca and EcoSecurities 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 propose to collect and destroy landfill gas through flare or electric energy generator reducing the equivalent amount of 4 859 503 tons of CO₂ over the first 7 years.

The project is not expected to have considerable environmental impacts. An Environmental Impact Study as required by Brazilian law has been carried out and the project has received an environmental licence by IEMA

By promoting environmentally waste disposal and renewable energy, the project is in line with current sustainable development priorities of Brazil. Nevertheless, the Brazilian DNA has not yet formally approved the project, including a confirmation that the project assists Brazil in achieving sustainable development.

The Project applies the approved baseline methodology "Simplified Financial Analysis for Landfill Gas Capture Projects" (AM0003), i.e. collect and destroy landfill gas. The baseline scenario is sound. It is sufficient demonstrated the project id not a likely baseline scenario and that emission reductions attributable to the project are additional to any that would occur in absence of the project activity.

By destroying of landfill gas (methane), the Project results in the reduction of CO₂ emissions that are real, measurable and give long-term benefits to the mitigation of climate change. Given that the project is implemented ad designed, the project is likely to achieve the estimated amount of emission reductions.

The monitoring plan sufficiently specifies the monitoring requirements of the main project indicators. Detailed responsibilities and authorities for project management, procedures for monitoring and reporting, and QA/QC procedures are described on reviewed PDD of Marca Landfill Gas to Energy Project

Some clarifications and corrective actions were requested by DNV Certification as part of the validation, but the complementary information provided by Marca and Ecosecurities enable DNV Certification to conclude the validation.

For further details, please refer to the "Validation Findings" Section (pages 6-12) and Table 1 of the Validation Protocol in Appendix A of DNV Certification's Preliminary Validation Report of 20 May 2004.

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 two conditions:
1) Comments by parties, stakeholders and NGOs are currently invited, but the period for comments will end on 23 June 2004.
2) 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

2 June 2004

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