



# PERIODIC VERIFICATION REPORT

- 2<sup>ND</sup> PERIODIC –

## ZILLO LORENZETTI GROUP

### ZILLO LORENZETTI BAGASSE COGENERATION PROJECT

MONITORING PERIOD 2006-01-01 TO 2006-12-10

**Report No: 4873/07-07/30 - V01**

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<p>Summary: Açucareira Zillo Lorenzetti S.A and Usina Barra Grande de Lençóis S.A (Zillo Lorenzetti Group) have commissioned the TÜV NORD JI/CDM Certification Program to carry out the 2<sup>nd</sup> periodic verification of the project: "Zillo Lorenzetti Bagasse Cogeneration Project", with regard to the relevant requirements for CDM project activities. The project reduces GHG emissions by displacement of conventional generated electricity in the Brazilian interconnected grid by renewable power from a bagasse-based cogeneration plant.</p> <p>This verification covers the period from 2006-01-01 to 2006-12-10.</p> <p>A risk based approach has been followed to perform this verification. In the course of the verification one remaining Forward Action Requests (FAR), one Corrective Action Request (CAR) and no Clarification Request (CR) were raised.</p> <p>The verification is based on the draft monitoring report (December 2006), the final monitoring report (July 2007), the monitoring plan as set out in the validated PDD, the validation report, the initial and first verification report, the monitoring report for previous monitoring periods and supporting documents made available to the TÜV NORD JI/CDM CP by the project participants.</p> <p>As a result of this periodic verification, the verifier confirms that:</p> <ul style="list-style-type: none"> <li>all operations of the project are implemented and installed as planned and described in the validated project design document.</li> <li>the installed equipment essential for generating emission reductions runs reliable.</li> <li>the monitoring system is in place and fully functional. The project is ready to generate GHG emission reductions.</li> </ul> <p>As the result of the 2<sup>nd</sup> periodic verification, the verifier confirms that the GHG emission reductions are calculated without material misstatements in a conservative and appropriate manner. TÜV NORD JI/CDM CP herewith confirms that the project has achieved emission reductions in the above mentioned reporting period as follows:</p> <table> <tr> <td>Baseline emissions:</td> <td>62,603</td> <td>t CO<sub>2eq</sub></td> </tr> <tr> <td>Project emissions:</td> <td>0</td> <td>t CO<sub>2eq</sub></td> </tr> <tr> <td><b>Emission reductions:</b></td> <td><b>62,603</b></td> <td><b>t CO<sub>2eq</sub></b></td> </tr> </table>		Baseline emissions:	62,603	t CO <sub>2eq</sub>	Project emissions:	0	t CO <sub>2eq</sub>	<b>Emission reductions:</b>	<b>62,603</b>	<b>t CO<sub>2eq</sub></b>
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Report No.: <b>4873/07-07/30-V01</b>	Subject Group: <b>Environment</b>
Report title: <b><i>Second Verification Report – Zillo Lorenzetti Bagasse Cogeneration Project</i></b>	
Work carried out by: <b>Rainer Winter, M. C. C. Coelho</b>	
Work verified by: <b>Wolfgang Wielpütz</b>	
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## Indexing terms

*Climate Change, CDM, Co-generation, Verification, Kyoto Protocol*

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## **Abbreviations**

<b>AZL</b>	<b>Açucareira Zillo Lorenzetti Unit</b>
<b>BGL</b>	<b>Barra Grande de Lençóis Unit</b>
<b>CAR</b>	<b>Corrective Action Request</b>
<b>CDM</b>	<b>Clean Development Mechanism</b>
<b>CER</b>	<b>Certified Emission Reduction</b>
<b>CETESB</b>	<b>Companhia de Tecnologia e Saneamento Ambiental (São Paulo State Environmental Agency)</b>
<b>CO<sub>2</sub></b>	<b>Carbon dioxide</b>
<b>CO<sub>2eq</sub></b>	<b>Carbon dioxide equivalent</b>
<b>CP</b>	<b>Certification Program</b>
<b>CR</b>	<b>Clarification Request</b>
<b>DAEE</b>	<b>Departamento de Águas e Energia Elétrica – SP (Water and Electric Energy Department of the State of São Paulo)</b>
<b>FAR</b>	<b>Forward Action Request</b>
<b>GHG</b>	<b>Greenhouse gas(es)</b>
<b>GWP</b>	<b>Global Warming Potential</b>
<b>kW</b>	<b>Kilowatt</b>
<b>LoA</b>	<b>Letter of Approval</b>
<b>MR</b>	<b>Monitoring Report</b>
<b>MP</b>	<b>Monitoring Plan</b>
<b>MW</b>	<b>Megawatt</b>
<b>PDD</b>	<b>Project Design Document</b>
<b>PPA</b>	<b>Power Purchase Agreement</b>
<b>QMS</b>	<b>Quality management system</b>
<b>UNFCCC</b>	<b>United Nations Framework Convention on Climate Change</b>
<b>VVM</b>	<b>Validation and Verification Manual</b>

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## 1. INTRODUCTION

Açucareira Zillo Lorenzetti S.A and Usina Barra Grande de Lençóis S.A. (Zillo Lorenzetti Group) have commissioned the TÜV NORD JI/CDM Certification Program (CP) to carry out the 2<sup>nd</sup> periodic verification of the project: “Zillo Lorenzetti Bagasse Cogeneration Project”, with regard to the relevant requirements for CDM project activities. The verifiers have reviewed the GHG data collected for the period between 2006-01-01 and 2006-12-10.

### 1.1. Objective

The objective of the periodic verification is the review and ex post determination by an independent entity of the GHG emission reductions. It includes the verification of the data given in the monitoring report by checking the monitoring records and the emission reduction calculation.

### 1.2. Scope

The verification of this registered project is based on the validated project design document <sup>/PDD/</sup>, the monitoring report <sup>/MR2/</sup>, supporting documents handed over to the verifier and information got by performing interviews and during the on-site assessment. Furthermore publicly available information was considered as far as available and required.

The documents and information are reviewed against the requirements and criteria mentioned below. The TÜV NORD JI/CDM CP has, based on the recommendations in the Validation and Verification Manual <sup>/VVM/</sup> employed a risk-based approach in the verification, focusing on the identification of significant risks and reliability of project monitoring and generation of emission reductions.

The verification is carried out on the basis of the following requirements, applicable for this project:

- Article 12 of the Kyoto Protocol <sup>/KP/</sup>,
- guidelines for the implementation of Article 12 of the Kyoto Protocol as presented in the Marrakech Accords under decision 17/CP.7 <sup>/MA/</sup>, and the annex II to decision 21/CP.8 and subsequent decisions made by the Executive Board,
- other relevant rules, including the host country legislation,
- monitoring plan as given in the PDD <sup>/PDD/</sup>.
- remaining issues of previous verifications
- CDM Large Scale Methodology AM0015 version 1 <sup>/AM/</sup>

### 1.3. GHG Project Description

#### 1.3.1. Project Characteristics

Essential data of the project is presented in the following Table 1-1.

The GHG project can be classified as a large-scale CDM project in the sector given in Table 1-1 (according to UNFCCC sectoral scope numbers for CDM).

**Table 1-1: Project Characteristics**

Item	Data
Project title	Zillo Lorenzetti Bagasse Cogeneration Project
CDM registration No.	0202
Date of registration	2006-03-06
Project Scope (according to UNFCCC sectoral scope numbers for CDM)	1: Energy Industries (renewable - / non-renewable sources)
Applied Methodology	AM0015 version 1: "Bagasse-based cogeneration connected to an electricity grid"
Crediting period	Renewable Crediting Period (7 y)
Start of crediting period	2001-06-15
Host country	Brazil

#### 1.3.2. Project Parties

Brazil.

### 1.3.3. Project Participants

The following project participants are involved in the project activity as per LoA:

**Project Participant:** Açucareira Zillo Lorenzetti S.A  
Fazenda São João, Zona Rural  
Macatuba - São Paulo  
Brazil

Contact Person Mr. Paulo César Ferrari  
[pferrari@zilloren.com.br](mailto:pferrari@zilloren.com.br)

**Project Participant:** Usina Barra Grande de Lençóis S.A.  
Rodovia Marechal Rondon, Km 289  
Lençóis Paulista - São Paulo  
Brazil

Contact Person Mr. Paulo César Ferrari  
[pferrari@zilloren.com.br](mailto:pferrari@zilloren.com.br)

### 1.3.4. Project Location

The project is located in two areas, being in Macatuba and Lençóis Paulista cities, near the city of Bauru, which is major city of the center of the Sao Paulo State (Brazil).

### 1.3.5. Technical Project Description

The sugar mills produce sugar and anhydrous and hydrated alcohol, as well as generate their own electricity. The project activity consists of increasing the efficiency and capacity of the bagasse (a renewable fuel source, residue from sugarcane processing) cogeneration facilities at Zillo Lorenzetti and Usina Barra Grande de Lençóis, Zillo Lorenzetti Group's sugar mills. The higher efficiencies are based on retrofit and expansion of the existing power plant.

The project activity includes two different phases:

In 2001 (Phase 1) at both power plants (BGL and AZL) new turbo generators were installed. Thus it was possible to generate more electricity without increasing the steam generation. The aggregated power potential of these power plants was 24.4 MW.

In 2003 (Phase 2) started the 2<sup>nd</sup> expansion phase with the installation of a new high pressure boiler, coupled with a new turbo generator at BGL power plant.

The emission reductions are a result of the displacement of conventional generated energy in the Brazilian interconnected South-Southeast-Midwest grid.

## 2. VERIFICATION TEAM

- The Verification Team was led by **Mr. Rainer Winter**. Mr. Winter works at TÜV NORD CERT GmbH as ISO 9001 and ISO 14001 Auditor, as an environmental verifier for EMAS, and as a DEHSt-appointed emission verifier in the framework of the EU-ETS. Mr. Winter has been appointed as JI/CDM assessor and is in charge of the TÜV NORD JI/CDM CP. For this verification he was assisted by:
- **Maria Carolina Crisci Coelho**, BRTÜV-Brazil (TÜVNORD-Brazil), Mrs. Coelho is ISO 14001 Auditor and Product Manager for CDM Services for BRTÜV. She is an appointed expert of TÜV NORD JI/CDM certification program.

The final verification report is verified by

- **Mr. Wolfgang Wielpütz**. He is ISO 9001 and 14001 Auditor, environmental verifier for EMAS and DEHSt-appointed emission verifier in the framework of EU-ETS. He is appointed JI/CDM assessor. Mr. Wielpütz is the head of the department: "Integrated management systems, environmental and occupational safety" and deputy chief of TÜV NORD CERT GmbH.

As a trainee **Ms. Inga Nagel** took part in the verification of this project activity. She works for the TÜV NORD CERT GmbH.

## 3. METHODOLOGY

The verification of the project was carried out from January to May 2007:

Preparations: *From 2007-01-20 to 2007-02-26*

On-site verification: *2007-02-27*

Reporting: *From 2007-02-27 to 2007-05-25*

The verification consisted of the following steps:

- A desk review of the Monitoring Report<sup>/MR2/</sup> submitted by the client and additional supporting documents with the use of the customised verification protocol<sup>/CPM/</sup> according to the Validation and Verification Manual<sup>/VVM/</sup>,
- On-Site assessment,
- Background investigation and follow-up interviews with personnel of the project developer and its contractors,
- Verification reporting.



### 3.1. Verification Protocol

In order to ensure transparency and consideration of all relevant assessment criteria, a verification protocol was used. The protocol shows, in a transparent manner, criteria and requirements, means and results of verification. The verification protocol serves the following purposes:

- It organises, details and clarifies the requirements a CDM project is expected to meet;
- It ensures a transparent verification process where the independent entity will document how a particular requirement has been proved and the result of the verification.

The applied verification protocol consists of two Periodic Verification Checklists: Table 1 (Data Management System/Controls); Table 2 (GHG calculation procedures and management control testing / Detailed audit testing of residual risk areas and random testing) as described in figure 3-1.

The completed verification protocol is enclosed in the annex to this report.

<b>Periodic Verification Checklist</b>			
<b>Table 1: Data Management Systems/Controls</b>			
<b>Expectations for GHG data management system/controls</b>	<b>Comments</b>	<b>Draft Concl.</b>	<b>Final Concl.</b>
<i>The project operator's data management system/controls are assessed to identify reporting risks and to assess the data management system's/control's ability to mitigate reporting risks. The GHG data management system/controls are assessed against the expectations detailed in the table.</i>	<i>Description of circumstances and further commendation to the conclusion.</i>	<i>This is either acceptable based on review of MR and supporting Documents (<b>OK</b>), or a <b>Corrective Action Request (CAR)</b> of risk or non-compliance with stated requirements. The corrective action requests are numbered and presented to the client in the Draft Verification report. The Initial Verification has additional <b>Forward Action Requests (FAR)</b>. FAR indicates essential risks for further periodic verifications</i>	<i>CARs and CRs raised in the Draft Conclusion have to be closed or resolved. The final conclusion determines the final statement. FARs could remain in this section as they are subject in the next consecutive verification.</i>

<b>Periodic Verification Checklist</b>				
<b>Table 2: GHG calculation procedures and management control testing / Detailed audit testing of residual risk areas and random testing</b>				
<b>Identification of potential reporting risk</b>	<b>Identification, assessment and testing of management controls</b>	<b>Areas of residual risks</b>	<b>Additional verification testing performed</b>	<b>Conclusions and Areas Requiring Improvement (including Forward Action Requests)</b>
<i>The following potential risks were identified and divided and structured according to the possible areas of occurrence.</i>	<i>The potential risks of raw data generation have been identified in the course of the monitoring system implementation. The following measures were taken in order to minimize the corresponding risks.</i>  <i>The following measures are implemented:</i>	<i>Despite the measures implemented in order to reduce the occurrence probability the following residual risks remain and have to be addressed in the course of every verification.</i>	<i>The additional verification testing performed is described. Testing may include:</i> <ul style="list-style-type: none"> <li>- Sample cross checking of manual transfers of data</li> <li>- Recalculation</li> <li>- Spreadsheet 'walk throughs' to check links and equations</li> <li>- Inspection of calibration and maintenance records for key equipment</li> <li>- Check sampling analysis results</li> </ul> <i>Discussions with process engineers who have detailed knowledge of process uncertainty/error bands.</i>	<i>Having investigated the residual risks, the conclusions should be noted here. Errors and uncertainties are highlighted.</i>

**Figure 3-1 : Verification protocol tables**

### 3.2. Review of Documentation

The following documents were reviewed:

- the last revision of the PDD including the monitoring plan<sup>/PDD/</sup>,
- the last revision of the monitoring report of previous Verification<sup>/MR1/</sup>
- the last revision of the monitoring report, including the claimed emission reductions for the project<sup>/MR2/</sup>,
- the last revision of the validation report<sup>/VAL/</sup>,

Other supporting documents, such as technical drawings, daily logbook and electronic data storage, meter readings, calibration documents and business data were also reviewed.

### 3.3. On-site assessment

The assessment performed during the verification enabled the verifier to arrive at a conclusion regarding the readiness of the project to generate high quality emission reductions. As such, it was indispensable to carry out an inspection on site in order to verify that the project is implemented in accordance with the applicable criteria. Furthermore the on-site assessment is necessary to check the monitoring data with respect to accuracy to ensure the calculation of emission reductions.

- The on-site assessment included an investigation of whether all relevant equipment is installed and works as anticipated.
- The operating staff was interviewed and observed in order to check the risks of inappropriate operation and data collection procedures.
- Information processes for generating, aggregating and reporting the selected monitored parameters were reviewed.
- The duly calibration of all metering equipment was checked.
- The manager operator has provided evidence that all metering equipment was duly calibrated.
- The monitoring processes, routines and documentations were audited to check their proper application.
- The monitoring data were checked via spot sample on the level of the meter recordings.

Before and during the on-site visit on 2007-02-27, the verifier of TÜV NORD JI/CDM CP performed interviews with the project participants to confirm selected information and to resolve issues identified in the document review.

Representatives of Zillo Lorenzetti Group and Ecoinvest Consult (project developer) including the operational staff of the plant were interviewed. The main topics of the interviews are summarised in Table 3-1.

**Table 3-1** Interviewed persons and interview topics

Interviewed Persons / Entities	Interview topics
1. Projects & Operations Personnel, AZL/BGL 2. Consultant, Ecoinvest	<ul style="list-style-type: none"> <li>- General aspects of the project</li> <li>- Project design and implementation</li> <li>- Commissioning</li> <li>- Technical equipment and operation</li> <li>- Monitoring and measurement equipment</li> <li>- Calibration procedures</li> <li>- Quality management system</li> <li>- Involved personnel and responsibilities</li> <li>- Training and practice of the operational personnel</li> <li>- Implementation of the monitoring plan</li> <li>- Monitoring data management</li> </ul>

Interviewed Persons / Entities	Interview topics
	<ul style="list-style-type: none"> <li>- Data uncertainty and residual risks</li> <li>- GHG calculation</li> <li>- Procedural aspects of the verification</li> <li>- Maintenance</li> <li>- Environmental aspects</li> <li>- FARs issued on 1st periodic verification report</li> </ul>

### 3.4. Resolution of Forward and Corrective Action Requests

Nonconformities raised during the verification can either be seen as a non-fulfilment of criteria ensuring the proper implementation of a project or where a risk to deliver high quality emission reductions is identified.

Corrective Action Requests (CARs) are issued, if:

- there is a clear deviation concerning to the above mentioned applicable criteria (esp. the monitoring plan).
- requirements set by the monitoring plan or qualifications in the validation opinion have not been met; or
- there is a risk that the project would not be able to deliver emission reductions.

Forward Action Requests (FAR) indicate essential risks for further periodic verifications. Forward Action Requests are issued, if:

- the actual status requires a special focus on this item for the next consecutive verification, or
- an adjustment of the monitoring plan is recommended.

The verification team may also use the term Clarification Request (CR), which would be issued if:

- additional information is needed to fully clarify an issue.

## 4. VERIFICATION FINDINGS

In the following paragraphs the findings from the desk review of the monitoring report<sup>/MR2/</sup>, the PDD<sup>/PDD/</sup>, the first Verification Report<sup>/VER/</sup> and other supporting documents, as well as from the on-site assessment and the interviews are summarised.

The summary of CAR, FAR and CR issued are shown in Table 4-1:

**Table 4-1:** Summary of CAR, FAR and CR

Verification topic	No. of CAR	No. of FAR	No. of CR
Remaining issues	0	1	0
Completeness of Monitoring	1	0	0
Accuracy of emission reduction calculations	0	0	0
Quality of Evidence to Determine Emission Reductions	0	0	0
Management system and quality assurance	0	0	0
<b>SUM</b>	<b>1</b>	<b>1</b>	<b>0</b>

For an in depth evaluation of all verification items it should be referred to the verification protocols (see Annex).

## 4.1. Periodic Verification Findings

### 4.1.1. Remaining Issues from previous Verification

During the initial and 1<sup>st</sup> periodic verification two FARs were raised:

#### **Forward Action Request 1**

*“The meters used for the measurement of the energy exported to the grid are of CPFL’s property. As per the Power Purchase Agreement, the sealed main meters used for recording the power export have to be calibrated annually. There is no evidence that this requirement has been fulfilled.”*

During the on-site visit the following calibration certificates were available:

The existent calibration certificates for the two meters of Açucareira Zillo Lorenzetti Unit are dated with 2004/04/16 and 2007/01/16. For the year 2006 no calibration certificate was available.

The meter used during the first monitoring period at Usina Barra Grande de Lençóis Unit had calibration certificates issued by the manufacturer in 2005/05/16 and 2007/01/18. In January 2007 this meter was replaced and the corresponding calibration certificate was issued on 2006-07-27.

Adequate corrective action was taken. The accuracy of the measurement is given for the 2<sup>nd</sup> monitoring period. However, it has to be ensured that the annual calibration cycle will be met in the future. Therefore the FAR will be kept open and checked during the next verification.

#### **Forward Action Request 2**

*“The activities related to receiving of external data, review, emission of invoices of the energy dispatched to the grid, archiving of data and all the responsibilities in connection to the determination of emission reduction are not formalized. There is no documented procedure defining the management and the monitoring activities related to the CDM project.”*

During the on-site visit all relevant procedures according to the management and monitoring of the CDM project were implemented and available. Moreover, technical instructions by CPFL are available in the areas of operation at Barra Grande de Lençóis Unit and Açucareira Zillo Lorenzetti Unit.

This FAR was checked and resolved.

### 4.1.2. Completeness of Monitoring

The only relevant parameter to monitor is the electricity fed into the grid. The reporting procedures reflect the requirements of the monitoring plan. All relevant data is collected continuously and stored during the whole monitoring period. The monitoring consists in using meter equipment projected to registry and verifies the energy generated by the facility. All the invoices issued by Zillo Lorenzetti Group during the monitoring period were checked against the confirmation of receipt of energy dispatched to the grid from CPFL.

Methodology AM0015 requires the monitoring of data required to calculate CO<sub>2</sub> emissions from fossil fuels combusted due to the project activity at the project site, where relevant. The equipment in operation to produce electricity at the project activity is not appropriate to combust fossil fuels. This was verified during the on-site visit. Moreover there were no evidences like a stockyard for fossil fuels, a natural gas connection or records of fossil fuel delivery at the project site that indicate any use of fossil fuels for combustion. Therefore it can be concluded that no emissions from the consumption of the fossil fuel have been generated in the project activity and monitoring of this data is not applicable. This issue should be addressed in subsequent verifications.

During the verification process no significant lacks of evidence were detected, only some editorial mistakes. Hence CAR 1 was raised and has been corrected during the verification process.

### 4.1.3. Accuracy of Emission Reduction Calculations

According to the selected approved methodology (AM0015 version 1), the baseline emission factor (*EF<sub>y</sub>*) is calculated as a combined margin (*CM*), consisting of the combination of operating margin (*OM*) and build margin (*BM*) factors. Determining the build margin and the operating margin emission factors, a project electricity system is defined by the spatial extent of the power plants that can be dispatched without significant transmission constraints. The ex-ante calculated grid emission factor as per registered PDD is fixed with 0.2677 tCO<sub>2</sub>e/MWh and this is the value used in the monitoring report<sup>/MR2/</sup>.

According to the MP and the applied methodology the only parameter that has to be measured and calculated is the electricity supplied to the grid. The electricity meters used are well known and state of the art. Zillo Lorenzetti Group performs the measurements in both sub-stations and the collected data is transferred via remote data transmission. All measured data is collected continuously during the whole monitoring period.

Calculation of the emission reductions is based on validated and registered parameters fixed in the PDD for the Brazilian South-Southeast-Midwest interconnected grid.

#### **4.1.4. Quality of Evidence to Determine Emission Reductions**

The key parameter “power output” was measured by calibrated meters. CPFL/Metrowatt Comércio e Manutenção Ltda provided the power meters and is responsible for the calibration.

The verification team got access to all relevant documentation regarding the monitoring of the emission reduction calculation, like:

- technical data of the measuring equipment
- meter readings by the Zillo Lorenzetti Group,
- confirmation of receipt,
- calibration certificate,
- measurement devices stock list,
- quality management system,
- calculation spreadsheets.

All these documentation were checked and found to be consistent and of high quality. Furthermore all needed information is traceable and appropriately archived.

All used parameters were of sufficient and appropriate quality to assure an accurate monitoring.

It could be evidenced that the whole monitoring system was fully operational during the entire monitoring period.

#### **4.1.5. Management System and Quality Assurance**

The Management System for the monitoring of the CDM Project is in place. The organizational structures with the responsibilities have been properly identified. The key parameters are measured and reviewed periodically as per the procedures. The meters are calibrated by CPFL/Metrowatt.

Every month a confirmation of receipt is issued by the power utility-CPFL, based on the recorded information of the electricity exported. Based on this information Zillo Lorenzetti Group exposes the invoice.



#### 4.1.6. Summary of Findings and Conclusions

The findings of the Periodic Verification process are summarized in table 4-2 below.

**Table 4-2:** Periodic Verification Findings

Topic	#		
Remaining issues	FAR 1	Classification	<input type="checkbox"/> CAR <input checked="" type="checkbox"/> FAR <input type="checkbox"/> CR <input type="checkbox"/> None
		Findings	<i>The meters used for the measurement of the energy exported to the grid are of CPFL's property. As per the Power Purchase Agreement, the sealed main meters used for recording the power export have to be calibrated annually. There is no evidence that this requirement has been fulfilled.</i>
		Corrective Action	<p>The existent calibration certificates for the two meters of Açucareira Zillo Lorenzetti Unit are dated with 2004/04/16 and 2007/01/16. For the year 2006 no calibration certificate was available.</p> <p>The meter used during the first monitoring period at Usina Barra Grande de Lençóis Unit had calibration certificates issued by the manufacturer in 2005/05/16 and 2007/01/18. In January 2007 this meter was replaced and the corresponding calibration certificate was issued on 2006-07-27.</p> <p>Adequate corrective action was taken. The accuracy of the measurement is given for the 2<sup>nd</sup> monitoring period. However, it has to be ensured that the annual calibration cycle will be met in the future. Therefore the FAR will be kept open and checked during the next verification.</p>
		Conclusion	<input checked="" type="checkbox"/> To be checked during next periodic verification <input type="checkbox"/> Appropriate action was taken <input type="checkbox"/> MR was corrected correspondingly <input type="checkbox"/> Appropriate action was <b>not</b> taken <input type="checkbox"/> The project complies with the requirements
Completeness of monitoring	CAR 1	Classification	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> FAR <input type="checkbox"/> CR <input type="checkbox"/> None
		Findings	The ID number 5 in section B.3. is missing.
		Corrective Action	Corrections has been done
		Conclusion	<input type="checkbox"/> To be checked during next periodic verification <input type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> MR was corrected correspondingly <input type="checkbox"/> Appropriate action was <b>not</b> taken <input type="checkbox"/> The project complies with the requirements

Accuracy of emission reduction calculations	Classification	<input type="checkbox"/> CAR	<input type="checkbox"/> FAR	<input type="checkbox"/> CR	<input checked="" type="checkbox"/> None
	Findings	-			
	Corrective Action	-			
	Conclusion	<input type="checkbox"/> To be checked during next periodic verification <input type="checkbox"/> Appropriate action was taken <input type="checkbox"/> MR was corrected correspondingly <input type="checkbox"/> Appropriate action was <b>not</b> taken <input checked="" type="checkbox"/> The project complies with the requirements			
Quality of evidence to determine emission reductions	Classification	<input type="checkbox"/> CAR	<input type="checkbox"/> FAR	<input type="checkbox"/> CR	<input checked="" type="checkbox"/> None
	Findings	-			
	Corrective Action	-			
	Conclusion	<input type="checkbox"/> To be checked du-ring next periodic verification <input type="checkbox"/> Appropriate action was taken <input type="checkbox"/> MR was corrected correspondingly <input type="checkbox"/> Appropriate action was <b>not</b> taken <input checked="" type="checkbox"/> The project complies with the requirements			
Management system and quality assurance	Classification	<input type="checkbox"/> CAR	<input type="checkbox"/> FAR	<input type="checkbox"/> CR	<input checked="" type="checkbox"/> None
	Findings	-			
	Corrective Action	-			
	Conclusion	<input type="checkbox"/> To be checked during next periodic verification <input type="checkbox"/> Appropriate action was taken <input type="checkbox"/> MR was corrected correspondingly <input type="checkbox"/> Appropriate action was <b>not</b> taken <input checked="" type="checkbox"/> The project complies with the requirements			



## 5. PROJECT SCORECARD

Risk Areas		Conclusions			Summary of findings and comments
		Baseline Emissions	Project Emissions	Calculated Emission Reductions	
<b>Completeness</b>	<ul style="list-style-type: none"> <li>Source coverage/ boundary definition</li> </ul>	✓	✓	✓	All relevant sources are covered by the monitoring plan. The project boundaries are defined correctly and transparently.
<b>Accuracy</b>	<ul style="list-style-type: none"> <li>Physical Measurement and Analysis</li> </ul>	✓	✓	FAR1	Since the calibration certificates are not issued annually the remaining FAR 1 still persists.
	<ul style="list-style-type: none"> <li>Data calculations</li> </ul>	✓	✓	✓	The emission reductions are calculated correctly.
	<ul style="list-style-type: none"> <li>Data management &amp; reporting</li> </ul>	✓	✓	✓	The procedures and instructions are updated.
<b>Consistency</b>	<ul style="list-style-type: none"> <li>Changes in the project</li> </ul>	✓	✓	✓	The project has been implemented as described in the PDD. One meter at BGL site was replaced, nevertheless this meter is state of the art and calibrated acc. to corresponding procedures.

## 6. VERIFICATION STATEMENT

Açucareira Zillo Lorenzetti S.A. and Usina Barra Grande de Lençóis S.A have commissioned the TÜV NORD JI/CDM Certification Program to carry out the 2<sup>nd</sup> periodic verification of the project: “Zillo Lorenzetti Bagasse Cogeneration Project”, with regard to the relevant requirements for CDM project activities. The project reduces GHG emissions by displacement of conventional generated electricity in the Brazilian interconnected grid by renewable power from a bagasse-based cogeneration plant.

This verification covers the period from 2006-01-01 to 2006-12-10.

A risk based approach has been followed to perform this verification. In the course of the verification one remaining Forward Action Request (FAR), one Corrective Action Request (CAR) and no Clarification Request (CR) were raised.

The verification is based on the draft monitoring report (December 2006), the final monitoring report (July 2007), the monitoring plan as set out in the validated PDD, the validation report, the verification report from previous verification and supporting documents made available to the TÜV NORD JI/CDM CP by the project participants.

As the result of the 2<sup>nd</sup> periodic verification, the verifier confirms that the GHG emission reductions are calculated without material misstatements in a conservative and appropriate manner. TÜV NORD JI/CDM CP herewith confirms that the project has achieved emission reductions in the above mentioned reporting period as follows:

Baseline emissions:	62,603	t CO <sub>2eq</sub>
Project emissions:	0	t CO <sub>2eq</sub>
<b>Emission reductions:</b>	<b>62,603</b>	<b>t CO<sub>2eq</sub></b>

Essen, 2007-07-10



Rainer Winter  
TÜV NORD JI/CDM Certification Program  
Verification Team Leader

## 7. REFERENCES

**Table 7-1:** Documents provided by the project proponent

Reference	Document
/CC/	Calibration Certificate of sealed meters
/CPFL/	Confirmation of receipts from CPFL and invoices of the energy sales
/DAEE/	Water Impounding Permit according to DAEE # 1143, was issued on 2002-08-09 and it is valid up 2007-08-09 – to well #01 (BGL). Water Impounding Permit according to DAEE Resolution # 012, was issued on 2003-01-06 and it is valid up to 2008-01-06 – to well #01 (AZL)
/EX/	Electricity exported to the grid, periodic readings
/JMR/	Joint meter readings
/MR1/	Monitoring Report “Zillo Lorenzetti Bagasse Cogeneration Project” for the period 2001-01-15 to 2005-12-31, version 02 – 2006-06-29
/MR2/	Monitoring Report “Zillo Lorenzetti Bagasse Cogeneration Project” for the period 2006 January 01 to 2006 December 10, version 01 – 21 <sup>st</sup> December, 2006 Monitoring Report “Zillo Lorenzetti Bagasse Cogeneration Project” for the period 2006 January 01 to 2006 December 10, version 02 – 11 <sup>st</sup> May, 2007 Monitoring Report “Zillo Lorenzetti Bagasse Cogeneration Project” for the period 2006 January 01 to 2006 December 10, version 03 – 5 <sup>th</sup> July, 2007
/OL/	CETESB’s Operation License #7001863, issued on Jan. 04, 2006, valid until Jan 04, 2008 (AZL). CETESB’s Operation License #7001877, issued on Jan. 04, 2006, valid until Jan 04, 2008 (BGL)
/PDD/	Final Project Design Document for CDM project “Zillo Lorenzetti Bagasse Cogeneration Project”, registered March 2006
/PPA/	Power Purchase Agreement
/VAL/	Validation Report – “Zillo Lorenzetti Bagasse Cogeneration Project (ZLBGP) in Brazil”, version 02, December 22, 2005, issued by DNV Det Norske Veritas
/VER/	Verification Report “Zillo Lorenzetti Bagasse Cogeneration Project”, version 02, August 14, 2006, issued by BVQI Bureau Veritas Quality International

**Table 7-2:** Background investigation and assessment documents

Reference	Document
/AM/	AM0015 version 1: "Bagasse-based cogeneration connected to an electricity grid"
/CPM/	TÜV NORD JI / CDM CP Manual (incl. CP procedures and forms)
/KP/	Kyoto Protocol (1997)
/MA/	Decision 17/CP.7 (Marrakech Accords): Guidelines for the implementation of Article 12 of the Kyoto Protocol
/VVM/	IETA, PCF Validation and Verification Manual (V. 4)

**Table 7-3:** List of interviewed persons

Reference		Name	Organisation / Function
/IM01/	<input type="checkbox"/> Mr. <input checked="" type="checkbox"/> Ms.	K. M. Nagai	Ecoinvest, consultant
/IM01/	<input type="checkbox"/> Mr. <input checked="" type="checkbox"/> Ms.	Mrs. V. Batista	Zillo Lorenzetti Group, assistant of business and commercialization
/IM01/	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Mr. F. P. Pereira	Zillo Lorenzetti Group, operator of turbine generator
/IM01/	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Mr. A. Viana	Zillo Lorenzetti Group, environmental technician
/IM01/	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Mr. D. G. Boaventura	Zillo Lorenzetti Group, trainee of business and commercialization
/IM01/	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Mr. J. A. Mira	Zillo Lorenzetti Group, technician of electric generation and distribution
/IM01/	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Mr. M. A. Sanches	Zillo Lorenzetti Group, analyst of business and commercialization
/IM01/	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Mr. J. V. Peliologo	Zillo Lorenzetti Group, technician of electric generation

# ANNEX



## ANNEX: VERIFICATION PROTOCOL

**Table 1: Data Management System/Controls**

Expectations for GHG data management system/controls	Verifiers Comments	Draft Concl.	Final Concl.
<b>1. Defined organisational structure, responsibilities and competencies</b>			
<b>1.1. Position and roles</b> <i>Position and role of each person in the GHG data management process is clearly defined and implemented, from raw data generation to submission of the final data. Accountability of senior management must also be demonstrated.</i>	<p>The project manager has the overall responsibility for the CDM project.</p> <p>Each plant has a technician to assist the manager for electric energy generation and distribution (AZL: Mr. Paliologo; BGL: Mr. Mira).</p>	OK	OK
<b>1.2. Responsibilities</b> <i>Specific monitoring and reporting tasks and responsibilities are included in job descriptions or special instructions for employees.</i>	<p>All responsibilities were clearly defined and formalized in the relevant procedures and documents which have been presented during the site visit.</p> <p>ECOINVEST CARBON is responsible for the monitoring report including the calculation of the emissions reductions based on the information received from Zillo Lorenzetti and following the monitoring plan indicated in the PDD.</p>	OK	OK



[illegible]



Expectations for GHG data management system/controls	Verifiers Comments	Draft Concl.	Final Concl.
<b>2.2. Necessary Changes</b> <i>Necessary changes to the monitoring plan are identified and changes are integrated in local procedures as necessary.</i>	No changes to the monitoring plan are identified.	OK	OK
<b>3. Application of GHG determination methods</b>			
<b>3.1. Methods used</b> <i>There are documented description of the methods used to determine GHG emissions and justification for the chosen methods. If applicable, procedures for capturing emissions from non-routine or exceptional events are in place and implemented.</i>	<p>The GHG emission reductions were determined acc. to the Methodology AM0015 version 1 – “Bagasse-based cogeneration connected to an electricity grid” and the monitoring plan as set out in the registered PDD.</p> <p>The electricity exported to the grid is multiplied with the predetermined carbon emission factor (as per registered PDD) to result in the actual emissions reductions.</p> <p>During the on-site visit all relevant procedures according to the management and monitoring for the determination of the emission reductions of the CDM project were implemented and available.</p>	OK	OK
<b>3.2. Information/process flow</b> <i>An information/process flow diagram, describing the entire process from raw data to reported totals is developed.</i>	<p>The total energy generated by the mill and its distribution to the power utility-CPFL is given in monthly tables. The procedure for recording the power exported to the grid has been indicated in the Power Purchase Agreement.</p> <p>The monitoring report includes the monitoring of the power supplied to the grid, the utilized emission factor and the calculation of the emissions reductions.</p> <p>There is an internal control system installed for both units, using a back-up system of the electricity exported to the grid. A daily control and a previous check of the meters are done by the maintenance staff as well as a</p>	OK	OK



Expectations for GHG data management system/controls	Verifiers Comments	Draft Concl.	Final Concl.
	manual registration of the data of the main meters. The internal data and the values invoiced are compared.		
<b>3.3. Data transfer</b> <i>Where data is transferred between or within systems/spreadsheets, the method of transfer (automatic/manual) is highlighted - automatic links/updates are implemented where possible. All assumptions and the references to original data sources are documented.</i>	<p>The procedure for recording the power exported to the grid has been indicated in the Power Purchase Agreement. From January 01, 2006 to December 10, 2006, the measurements of the energy exported to the grid were done by means of ELO 2180SP meters. Every month a confirmation of receipt is issued by the power utility-CPFL, based on the recorded information of the electricity exported. Based on this information Zillo Lorenzetti Group exposes the invoice.</p> <p>The emission reductions are calculated using the checked data.</p>	OK	OK
<b>3.4. Data trails</b> <i>Requirements for documented data trails are defined and implemented and all documentation are physically available.</i>	The requirements for documented data traceability are fulfilled and tested on a random sample basis during the site visit.	OK	OK
<b>4. Identification and maintenance of key process parameters</b>			
<b>4.1. Identification of key parameters</b> <i>The key physical process parameters that are critical for the determination of GHG emissions (e.g. meters, sampling methods) are identified.</i>	The key parameter with significant influence on the calculation of emission reductions is the power output. This parameter was measured with calibrated meters.	OK	OK
<b>4.2. Calibration/maintenance</b> <i>Appropriate calibration/maintenance requirements are</i>	The existent calibration certificates for the two meters of Açucareira Zillo Lorenzetti Unit are dated with 2004/04/16 and 2007/01/16. For the year 2006 no	FAR1	FAR1



Expectations for GHG data management system/controls	Verifiers Comments	Draft Concl.	Final Concl.
<i>determined.</i>	<p>calibration certificate was available.</p> <p>The meter used during the first monitoring period at Usina Barra Grande de Lençóis Unit had calibration certificates issued by the manufacturer in 2005/05/16 and 2007/01/18. In January 2007 this meter was replaced and the corresponding calibration certificate was issued on 2006-07-27.</p> <p>With regard to the FAR1 raised in the initial and first periodic verification, adequate corrective action was taken. The accuracy of the measurement is given for the 2<sup>nd</sup> monitoring period. However, it has to be ensured that the annual calibration cycle will be met in the future. Therefore the FAR will be kept open and checked during the next verification.</p>		
<b>5. GHG Calculations</b>			
<p><b>5.1. Use of estimates and default data</b></p> <p><i>Where estimates or default data are used, these are validated and periodically evaluated to ensure their ongoing appropriateness and accuracy, particularly following changes to circumstances, equipment etc. The validation and periodic evaluation of this is documented.</i></p>	<p>The key parameter power output was measured. The emission factor was fixed ex-ante at the real stage, according to AM0015 version 1.</p>	OK	OK
<p><b>5.2. Guidance on checks and reviews</b></p> <p><i>Guidance is provided on when, where and how checks and reviews are to be carried out, and what evidence needs to be documented. This includes spot checks by a second person not performing the calculations over manual data transfers,</i></p>	<p>An internal auditing procedure is in place. The responsible persons are aware about the accuracy requirements for the data.</p> <p>Moreover a comparison of both metering system meters was carried out in order to determine the accuracy,</p>	OK	OK



Expectations for GHG data management system/controls	Verifiers Comments	Draft Concl.	Final Concl.
<i>changes in assumptions and the overall reliability of the calculation processes.</i>	consistency and correctness of the measured values.		
<b>5.3. Internal validation and verification</b> <i>Internal verifications include the GHG data management systems, to ensure consistent application of calculation methods.</i>  <i>Data reported from internal departments should be validated visibly (by signature or electronically) by an employee who is able to assess the accuracy and completeness of the data. Supporting information on the data limitations, problems should also be included in the data trail.</i>	The internal verification is accomplished at the plant manager level. Adequate evidences were provided to the verification team.	OK	OK
<b>5.4. Data protection measures</b> <i>Data protection measures for databases/spreadsheets should be in place (access restrictions and editor rights).</i>	The key parameters are being measured and recorded in the respective documents/ registers in electronic and in paper form. All software solutions are protected with standard PC protection measures and work within the limitation of user authorisation.	OK	OK
<b>5.5. IT systems</b> <i>IT systems used for GHG monitoring and reporting should be tested and documented.</i>	The IT system is based on standard PC solutions. All calculations necessary for purpose of emissions reduction monitoring can be done on the basis of MS – Excel (or comparable solutions).  See comment 5.4.	OK	OK



**Periodic Verification Checklist Table 2: GHG calculation procedures and management control testing / Detailed audit testing of residual risk areas and random testing**

Identification of potential reporting risk	Identification, assessment and testing of management controls	Areas of residual risks	Additional verification testing performed	Conclusions and Areas Requiring Improvement (including <i>Forward Action Requests</i> )
<b>Raw data generation</b>				
<ul style="list-style-type: none"> <li>• Installation of measuring equipment</li> <li>• Dysfunction of installed equipment</li> <li>• Maloperation by operational personnel</li> <li>• Downtimes of equipment</li> <li>• Exchange of equipment</li> <li>• Capacity additions</li> <li>• Change of technology</li> </ul>	<ul style="list-style-type: none"> <li>• Installation of modern and state of the art equipment</li> <li>• On line meter readings / independent counter-checks</li> <li>• Regular visual inspections of installed equipment</li> <li>• Only skilled and trained personnel operates the relevant equipment</li> <li>• Immediate exchange of dysfunctional equipment</li> <li>• Stand-by duty is organized</li> <li>• Training</li> <li>• Internal counterchecks</li> </ul>	<ul style="list-style-type: none"> <li>• Capacity additions</li> <li>• Inadequate installation / operation of the monitoring equipment</li> <li>• Inadequate exchange of equipment</li> <li>• Change of personnel</li> <li>• Undetected measurement errors</li> </ul>	<ul style="list-style-type: none"> <li>• Check of equipment</li> <li>• Check of technical data sheets</li> <li>• Site – visit</li> <li>• Counter-check of meter readings and commercial data</li> </ul>	<ul style="list-style-type: none"> <li>• <b>OK</b></li> </ul>



Identification of potential reporting risk	Identification, assessment and testing of management controls	Areas of residual risks	Additional verification testing performed	Conclusions and Areas Requiring Improvement (including <i>Forward Action Requests</i> )
<b>Raw data collection</b>				
<ul style="list-style-type: none"> <li>• Metering records</li> <li>• Operational log sheets</li> <li>• Calibration and maintenance data</li> <li>• Accuracies</li> <li>• Manuals and other manufacturer data</li> <li>• Accounting records</li> </ul>	<ul style="list-style-type: none"> <li>• Exclusive installation and operation of duly calibrated equipment</li> <li>• Cross-check of data</li> <li>• Redundant manual meter readings</li> <li>• Appropriate archiving system</li> <li>• Appointment of competent external measurement institutes for calibration holding the corresponding accreditations</li> <li>• International as well as national calibration standards</li> <li>• Clear allocation of responsibilities</li> </ul>	<ul style="list-style-type: none"> <li>• Unintended usage of old data that has been revised</li> <li>• Incomplete documentation</li> <li>• Ex-post corrections of accounting records</li> <li>• Ambiguous sources of information</li> </ul>	<ul style="list-style-type: none"> <li>• Check of calibration records</li> <li>• Check of individual (raw data) figures</li> </ul>	<ul style="list-style-type: none"> <li>• Procedure defining the management and the monitoring activities was documented</li> <li>• With regard to the FAR1 raised in the initial and first periodic verification, adequate corrective action was taken. However, it has to be ensured that the annual calibration cycle will be met in the future. Therefore the FAR will be kept open and checked during the next verification.</li> </ul>



Identification of potential reporting risk	Identification, assessment and testing of management controls	Areas of residual risks	Additional verification testing performed	Conclusions and Areas Requiring Improvement (including <i>Forward Action Requests</i> )
<b>Data aggregation</b>				
<ul style="list-style-type: none"> <li>IT Systems</li> <li>Spread sheet programming</li> <li>Manual data transmission</li> <li>Data protection</li> <li>Responsibilities</li> </ul>	<ul style="list-style-type: none"> <li>Clear allocation of responsibilities</li> <li>Usage of standard software solutions (Spreadsheets)</li> <li>Limited access to IT systems</li> <li>Data protection procedures</li> </ul>	<ul style="list-style-type: none"> <li>Manual data transfer mistakes</li> <li>Unintended change of spread sheet programming or data base entries</li> <li>Problems caused by updating/upgrading or change of applied software</li> </ul>	<ul style="list-style-type: none"> <li>Check of data aggregation</li> <li>Counter-calculation</li> </ul>	<b>OK</b>
<b>Other calculation parameters</b>				
<ul style="list-style-type: none"> <li>Data sources</li> <li>Emission factors</li> <li>Accuracies</li> </ul>	<ul style="list-style-type: none"> <li>Ex ante calculation of base line</li> <li>All used values and data sources applied are defined in the monitoring plan</li> </ul>	<ul style="list-style-type: none"> <li>No significant residual risks</li> </ul>	<ul style="list-style-type: none"> <li>No significant uncertainties or errors regarding the other calculation parameters were observed in the course of this verification.</li> </ul>	<b>OK</b>





Identification of potential reporting risk	Identification, assessment and testing of management controls	Areas of residual risks	Additional verification testing performed	Conclusions and Areas Requiring Improvement (including <i>Forward Action Requests</i> )
<b>Calculation Methods</b>				
<ul style="list-style-type: none"> <li>• Calculation approach</li> <li>• Applied formulae</li> <li>• Lack of clarity in the monitoring plan</li> </ul>	<ul style="list-style-type: none"> <li>• Appropriate IT and archiving system</li> <li>• Usage tested Excel spreadsheets</li> </ul>	<ul style="list-style-type: none"> <li>• The danger of miscalculation can only be minimized</li> </ul>	<ul style="list-style-type: none"> <li>• Countercheck on the basis of own calculation</li> </ul>	<ul style="list-style-type: none"> <li>• <b>OK</b></li> </ul>
<b>Monitoring reporting</b>				
<ul style="list-style-type: none"> <li>• Data transfer to the author of the monitoring report</li> <li>• Issuance of the monitoring report</li> </ul>	<ul style="list-style-type: none"> <li>• An experienced consultant is responsible for monitoring reporting</li> </ul>	<ul style="list-style-type: none"> <li>• The danger of data transfer mistakes can only be minimized</li> </ul>	<ul style="list-style-type: none"> <li>• Counter check with evidence provided</li> </ul>	<ul style="list-style-type: none"> <li>• <b>OK</b></li> </ul>