



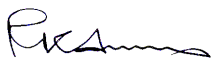
Verification and certification report form for CDM project activities

(Version 01.0)

Complete this form in accordance with the "Attachment: Instructions for filling out the verification and certification report form for CDM project activities" at the end of this form.

VERIFICATION AND CERTIFICATION REPORT

Title of the project activity	Lages Methane Avoidance Project
Reference number of the project activity	0268
Version number of the verification and certification report	02
Completion date of the verification and certification report	30/09/2016
Monitoring period number and duration of this monitoring period	Monitoring Period Number: 7 th 01/01/2013 to 31/10/2014
Version number of monitoring report to which this report applies	02
Crediting period of the project activity corresponding to this monitoring period	Fixed Crediting Period of 10 years. From 01/11/2004 to 31/10/2014.
Project participant(s)	<ul style="list-style-type: none"> • Lages Bioenergética Ltda. • Tractebel Energia S.A. • Bunge Emission Fund Limited • Fortum Corporation • Government of Finland – Ministry for Foreign Affairs of Finland • GDF Suez • RWE Power AG • Chubu Electric Power Co., Inc. • Japan International Cooperation Agency (JICA) • Kyushu Electric Power Co., Inc. • Mitsubishi Corporation • Shikoku Electric Power Co., Inc. • Tohoku Electric Power Co., Inc. • The Tokyo Electric Power Co., Inc. • The Chugoku Electric Power Co., Inc. • Mitsui & Co., Ltd • Electrabel N.V. • Netherlands' Ministry of Infrastructure and the Environment (IenM); • Netherlands' Ministry of Economic Affairs, Agriculture and Innovation (EL&I) • Norsk Hydro ASA • Government of Norway – Ministry of Foreign Affairs • Statoil ASA • Government of Sweden – Swedish Energy Agency

	<ul style="list-style-type: none"> • BP Alternative Energy International Ltd. • Deutsche Bank AG • International Bank for Reconstruction and Development (IBRD) Brazil
Host Party	Brazil
Sectoral scope(s), selected methodology(ies), and where applicable, selected standardized baseline(s)	<p>13 – Waste handling and disposal.</p> <p>Methodology. AMS-III.E. Version 7 – Avoidance of methane production from biomass decay through controlled combustion.</p> <p>Selected standardized baseline – N.A.</p>
Estimated GHG emission reductions or net anthropogenic GHG removals for this monitoring period in the registered PDD	360,596 tonnes of CO ₂ e.
Certified GHG emission reductions or net anthropogenic GHG removals for this monitoring period	720,270 tonnes of CO ₂ e.
Name of DOE	Bureau Veritas Certification.
Name, position and signature of the approver of the verification and certification report	 Mr Rajendra Sharma Global Climate Change Accreditation Coordinator

SECTION A. Executive summary

Tractebel Energia S.A. Brazil has commissioned Bureau Veritas Certification to verify the emission reductions of its Lages Methane Avoidance Project (hereafter called “the Project”) cogeneration facility located in Lages, State of Santa Catarina, Brazil, UNFCCC reference number 0268. The project applies methodology SSC_III.E version 7.0, on the basis of UNFCCC criteria for the CDM, as well as criteria given to provide for consistent project operation, monitoring and reporting. UNFCCC criteria refer to Article 12 of the Kyoto Protocol, the CDM rules and modalities and the subsequent decisions by the CDM Executive Board, as well as the host country criteria.

The project is under operation since 23 December 2003 by Lages Bioenergética Ltda, a Special Purpose Company fully owned by Tractebel Energia S.A., specially constituted to build, operate and maintain the facility.

The Project is designed to avoid methane emissions from anaerobic digestion in stockpiles (biomass decay) through controlled combustion in a cogeneration process to, simultaneously, provide electric and thermal energy (process steam) from the same primary energy source: biomass from the wasted wood not used by local timber industries before the project implementation. Since the Lages Project operation start in December 2003, these residues have been processed and used to produce steam and power avoiding methane emissions and soil and water pollution due to wood waste decomposition.

The project was implemented as described in the PDD and consists of a 120 ton/h steam flat pinhole grate boiler (AZ 200 MAX), with an efficiency output of up to 85%.

It was manufactured by Dedini Company in Brazil and uses wood waste biomass as fuel.

In the boiler, the biomass is controlled burnt generating thermal energy which is transferred to the water inlet for producing steam.

The boiler also has a scrubber system installed in the stack to remove suspended particle matter. The steam produced has two purposes: powering a Siemens - Alstom 28 MW at 13.8 kV electric energy turbo-generator and supplying energy to industries for their production processes.

The electrical energy produced is delivered to the plant substation and from there to the transmission line to be distributed by the local distribution company.

Until July 2008, the ash sludge from the scrubber was sent to the landfill of the Jorge Lacerda Thermoelectric Power Plant in Capivari de Baixo municipality, 680 km away (round trip) and, from August 2008 onwards, to other locations within the Lages Region, nearer to the project site.

Please, refer to the PDD version 03 and/or to the Monitoring Report version 02 to have information related to the main features of the major plant equipments, Boiler, Turbine and Generator.

During the project phase it was envisaged that the main suppliers of the wood waste would be the neighbouring wood industries Battistella (38%) and Sofia (16%), and other more distant suppliers of the open market (46%).

Since 2006 however, many wood industries in the Lages region that export their production have faced an economic crisis due to the devaluation of US dollars currency, resulting in the reduction or even interruption of their activities. This was the specific case for Sofia and Battistella wood industries, two of the main wood residues suppliers of the Lages Methane Avoidance Project. As a consequence, the wood waste supply from these two mills was reduced during the following years and during this monitoring period no biomass was supplied by Sofia or Battistella since both companies closed down their activities, respectively in September 2007 and October 2008.

From 2008 onwards, this situation has triggered due to an increasing demand of wood residues from the spot market in order to replace the biomass reduction from Battistella and Sofia and secure the project activity with the necessary amount of fuel to produce and deliver energy to the grid and, therefore, honour the PPAs signed with regional distribution companies.

In addition to that, the reduction in the available wood waste volumes caused by the USD devaluation kept the Spot Market wood waste prices high and obliged the project developer to seek for other biomass residues suppliers. The result was the purchase of biomass residues from some more distant suppliers, since the lower wood waste prices from these suppliers compensate the higher transportation costs, and also, the acquisition of “torettes” (fine branches lower than 15 cm diameter from pine reforested plantation) during this monitoring period.

Due to the aforementioned changes in market conditions and, therefore, the type of wood waste used by Lages, a Notification of Change in the PDD was sent to the Executive Board and approved on 30 March 2011. The revised PDD reported the additional use of fine branches smaller than 15 cm diameter (called “torettes”) as wood waste to generate the electricity to be delivered to the Brazilian grid and the steam to be supplied to local industries. Since the registered PDD did not envisage the use of this kind of wood waste, no methane avoidance has ever been claimed from the anaerobic digestion of this wood waste variety.

The revised PDD also recalculated the baseline emission reduction proportionally to the average use of the fine branches (“torettes”) and, although the fine branches were not considered in the determination of the baseline (MCF=0), the use of this biomass residues have been conservatively included in the calculation of project emissions without changing the estimations in the original PDD. The fraction of fine branches is not fixed for the crediting period and varies in accordance with market conditions (i.e.; availability of normal residues and price of the fine branches). However, an average of 10% of total waste consumption has been observed and used for recalculating the baseline emission reductions forecasted in the original PDD.

In the case that Sofia and Batistella recover their operations, as originally foreseen in the PDD, the fine branches might not to be used and the baseline emissions estimated in the registered PDD might be achieved again.

The revised PDD also clarified that, when both industries are not operating the steam is used to produce electricity, which is sold to the local distribution company and/or to industrial clients.

The verification scope is defined as an independent and objective review and ex-post determination of the monitored GHG emission reductions and consisted of the following three phases: i) desk review of the project design, the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion.

The overall verification, from Contract Review to Verification Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

In summary, Bureau Veritas Certification confirms that the project is implemented as planned and described in the registered project design document. Installed equipment being essential for generating emission reductions run reliably and are calibrated appropriately. The monitoring system is in place and the project is generating GHG emission reductions. The GHG emission reductions are calculated without material misstatement and the emission reductions verified totalize 720,270 tonnes of CO₂e in the current monitoring period.

SECTION B. Verification team, technical reviewer and approver

B.1. Verification team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Verification findings

1.	Team Leader	IR	Daraya	Antonio	Bureau Veritas Certification Brazil	X	X	X	X
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B.2. Technical reviewer and approver of the verification and certification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	IR	Prajapati	Bhaveskumar	Bureau Veritas Certification India
2.	Approver	IR	Sharma	Rajendra	Bureau Veritas Certification Holding SAS

SECTION C. Application of materiality**C.1. Consideration of materiality in planning the verification**

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	N/A			
...				

C.2. Consideration of materiality in conducting the verification

N/A.

SECTION D. Means of verification**D.1. Desk review**

No.	Author	Title	References to the document	Provider
1	Tractebel Energia S.A.	MR-0268-16-01-version01	13/01/2016	Project Participants
2	Tractebel Energia S.A.	MR-0268-16-05-version02	20/05/2016	Project Participants
3	Tractebel Energia S.A.	Excel Spreadsheet 0268 ER Sheet 8 Feb 15 rev Dutra Torete rev.Nov2015	08/02/2015	Project Participants
4	Tractebel Energia S.A.	Excel Spreadsheet CER Jan to Dec 2013 Rev Dutra Torete rev.Nov2015	08/02/2015	Project Participants
5	Tractebel Energia S.A.	Excel Spreadsheet CER Jan to Oct 2014 Rev Dutra Torete rev.Nov2015	08/02/2015	Project Participants
6	Tractebel Energia S.A.	Calibration Certificates # 0988138, # 1499344-2 and # 1084857 – Toledo Truck Scale 820 J – Serial Number 3077001100.	23/08/2012 20/08/2013 08/07/2014	Project Participants
7	Tractebel Energia S.A.	Calibration Certificates # 0988137, # 1499343-0 and # 1084858 – Toledo Truck Scale 820 J - Serial Number # 3077001101.	23/08/2012 20/08/2013 08/07/2014	Project Participants
8	Tractebel Energia S.A.	Calibration Certificates # 0066377 and # 0066752 – Toledo Dynamic Scale - Serial Number # 3092000123.	08/11/2012 26/12/2013	Project Participants
9	Tractebel Energia S.A.	Excel Spreadsheet – Control of the daily consumption of Diesel Oil – Jan to Dec 2013 and Jan to Oct 2014.	08/02/2015	Project Participants
10	Tractebel Energia S.A.	Calibration Certificates # 835573-3 and # 1495970 – Diesel Feed Pump #540670.	20/04/2012 27/06/2013	Project Participants
11	Bureau Veritas Certification	CDM_General_Protocol_Verification_Rev09.1UCLAreV1	31/05/2016	DOE

12	Bureau Veritas Certification	Verification and Certification Report ver.01	09/06/2016	DOE
13	Tractebel Energia S.A.	0268_Lages SSPDD_en_11 02 21 .pdf – Lages Methane Avoidance Project, version 03	21/02/2011	Project Participants
14	UNFCCC	Methodology. AMS-III.E. Version 7.0 – Avoidance of methane production from decay of biomass through controlled combustion.	28/11/2005	UNFCCC
15	UNFCCC	Methodological Tool – Emissions from Solid Waste Disposal Sites, version 07.0.	16/04/2015	UNFCCC
16	UNFCCC	Methodological Tool – Project and Leakage Emissions from Transportation of Freight, version 01.1.0.	23/11/2012	UNFCCC
17	IPCC	IPCC 2006, volumes 2 and 5.	2006	IPCC
18	UNFCCC	EB 69 Report, Annex 3, page 1 – $GWP_{CH_4}=25$ – $GWP_{N_2O}=298$.	09-12/09/2012	UNFCCC
19	Ministry of Mines and Energy-Brazil	ANP-Brazilian Petroleum Agency, Ordinance # 15.	17/07/2006	Min. Mines and Energy Brazil

D.2. On-site inspection

Duration of on-site inspection: 27/04/2016				
No.	Activity performed on-site	Site location	Date	Team member
1.	Process Overview.	Lages Plant	27/04/2016	Antonio Daraya
2.	Plant Tour.	Lages Plant	27/04/2016	Antonio Daraya
3.	Baseline and Monitoring Methodology.	Lages Plant	27/04/2016	Antonio Daraya
4.	Methodological Tools.	Lages Plant	27/04/2016	Antonio Daraya
5.	Implementation of Project Activity and Revised PDD.	Lages Plant	27/04/2016	Antonio Daraya
6.	Six Previous Verifications and Monitoring Reports.	Lages Plant	27/04/2016	Antonio Daraya
7.	Fuel – Amounts of Wood Waste utilized in this Monitoring Period – ID1, ID2, ID3 and ID4 of the PDD Section D.3.	Lages Plant	27/04/2016	Antonio Daraya
8.	Default values - ID5 of the PDD Section D.3.	Lages Plant	27/04/2016	Antonio Daraya
9.	On-site transportation - ID6 of the PDD Section D.3.	Lages Plant	27/04/2016	Antonio Daraya
10.	Off-site transportation - ID7 and ID8 of the PDD Section D.3.	Lages Plant	27/04/2016	Antonio Daraya
11.	Ash transportation - ID9 and ID10 of the PDD Section D.3.	Lages Plant	27/04/2016	Antonio Daraya
12.	Ash production - ID11 of the PDD Section D.3.	Lages Plant	27/04/2016	Antonio Daraya
13.	Data and parameters fixed ex ante or at renewal of crediting period.	Lages Plant	27/04/2016	Antonio Daraya
14.	Calibration of Instruments: Scales and Diesel Pump.	Lages Plant	27/04/2016	Antonio Daraya
15.	Calculation of baseline emissions.	Lages Plant	27/04/2016	Antonio Daraya
16.	Calculation of project emissions.	Lages Plant	27/04/2016	Antonio Daraya
17.	Calculation of Leakage.	Lages Plant	27/04/2016	Antonio Daraya
18.	Calculation of emission reductions.	Lages Plant	27/04/2016	Antonio Daraya
19.	Comparison of actual emission reductions or net GHG removals by sinks with estimates in registered PDD.	Lages Plant	27/04/2016	Antonio Daraya
20.	Remarks on difference from estimated value in registered PDD.	Lages Plant	27/04/2016	Antonio Daraya

D.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Cusatis	Mário	Tractebel Energia S.A.	27/04/2016	Project - General Information on the Methodology and Emissions Calculations.	Antonio Daraya
2.	Da Silva	Lígia	Tractebel Energia S.A.	27/04/2016	Project - General Information on the Methodology and Emissions Calculations.	Antonio Daraya
3.	Dutra	José	Tractebel Energia S.A.	27/04/2016	Plant Operation Information and Records.	Antonio Daraya
4.	Floriani	Anderson	Tractebel Energia S.A.	27/04/2016	Plant Operation Information and Records.	Antonio Daraya
5.	De Souza	Guilherme	Tractebel Energia S.A.	27/04/2016	Truck Weighing Procedures and Records.	Antonio Daraya

D.4. Sampling approach

1- Fuel – Amount of wood waste combusted – ID 1.

The information of the Monitoring Report, version 02 (amount of wood waste combusted $QC_{biomass}$) related to twelve months of the year 2013 (January to December) and to ten months of the year 2014 (January to October) was checked with the measurement records of the Dynamic Scale at the entrance of the boiler, automatically registered in the Lages/Tractebel Electronic Planning Production Control System.

It was utilized a Random Sampling of three months of 2013 (March, August and November) and of 2 months of 2014 (April and September), /Ref 4/ and /Ref 5/.

The calibration of the Dynamic Scale was checked. It was correct and covering all the monitored period /Ref 8/.

2- Fuel – Amount of wood waste obtained from Battistella – ID 2.

There was not any quantity of biomass supplied by Battistella to the project during the monitoring period.

3- Fuel – Amount of wood waste obtained from Sofia – ID 3.

There was not any quantity of biomass supplied by Sofia to the project during the monitoring period.

4- Fuel – Amount of wood waste obtained from Spot Market – ID 4.

The information of the Monitoring Report related to twelve months of the year 2013 (January to December) and to ten months of the year 2014 (January to October) was checked with the data in the Lages/Tractebel Electronic Planning Production Control system (records of the truck scale) and cross checked with purchase receipts.

It was utilized a Random Sampling of three months of 2013 (March, August and November) and of 2 months of 2014 (April and September) /Ref 4/ and /Ref 5/.

The calibration of the Truck Scales was checked. It was correct and covering all the monitored period /Ref 6/ and /Ref 7/.

5- Validation of Default Values – ID 5.

All the parameters and emission factors used to calculate the emission reductions are available in the PDD and were previously validated by Bureau Veritas during the validation process of the project activity. The values of these parameters and emission factors are annually verified to identify any changes. Refer to Section D.1 of the Monitoring Report, version 02 /Ref 2/.

6- On-site transportation – Diesel Oil purchase – ID 6.

The information of the Monitoring Report related to twelve months of the year 2013 (January to December) and to ten months of the year 2014 (January to October) was checked with the data in the Lages/Tractebel Electronic Planning Production Control system.

The amounts of diesel oil used inside the Lages Project was monthly monitored through the invoices emitted by the supplier and amounts already stored (initial and final inventory), and cross checked with purchase receipts.

It was utilized a Random Sampling of three months of 2013 (January, July and October) and of 2 months of 2014 (February and June) /Ref 9/.

The calibration of the Internal Diesel Feed Pump was checked. It was correct and covering all the monitored period /Ref 10/.

7- Off-site transportation – Location of wood waste suppliers compared with Lages site – ID 7.

The information of the Monitoring Report related to twelve months of the year 2013 (January to December) and to ten months of the year 2014 (January to October) was checked with the data in the Lages/Tractebel Electronic Planning Production Control system and cross checked with purchase receipts.

The data about the round trip distance between the wood waste suppliers and the Lages Project site and the truck capacity were monitored and presented in Excel Spreadsheets /Ref 3/ and in /Ref 4/. The weighted average round trip distance and truck capacity of all active wood waste suppliers to Lages Project site, which are necessary to calculate the emissions from the off-site transportation, are also presented in Excel Spreadsheets /Ref 3/ and in /Ref 4/.

It was utilized a Random Sampling of three months of 2013 (January, July and October) and of 2 months of 2014 (February and June) /Ref 9/.

The calibration of the Truck Scales was checked. It was correct and covering all the monitored period /Ref 6/ and /Ref 7/.

8- Off-site transportation – Truck capacity – ID 8.

Refer to item 7 above, where the calculation of the truck capacity was explained.

9- Ash transportation – Location of ash disposal site – ID 9.

The information of the Monitoring Report related to twelve months of the year 2013 (January to December) and to ten months of the year 2014 (January to October) was checked with the data in the Lages/Tractebel Electronic Planning Production Control system and cross checked with purchase receipts.

During the monitoring period the ash produced by the project activity was disposed of at Lages Region, aligned with the Environmental Agency approval, reducing the round trip distance and, consequently, greenhouse gas emissions from ash transportation, in comparison with the previous monitoring reports. Until July 2008 the ash produced had been transported to Jorge Lacerda Thermoelectric Power Plant in Capivari do Baixo municipality, State of Santa Catarina, to be disposed of in an appropriate manner.

The weighted average round trip distance between the ash disposal sites and Lages Project site and the truck capacity, which are necessary to calculate the emissions from ash transportation, are presented in Excel Spreadsheets /Ref 3/ and in /Ref 4/.

It was utilized a Random Sampling of three months of 2013 (January, July and October) and of 2 months of 2014 (February and June) /Ref 3/ and in /Ref 4/.

The calibration of the Truck Scales was checked. It was correct and covering all the monitored period /Ref 6/ and /Ref 7/.

10- Ash transportation – Truck capacity – ID 10.

Refer to item 9 above, where the calculation of the truck capacity was explained.

11- Ash production – Amount of ash produced – ID 11.

The information of the Monitoring Report related to twelve months of the year 2013 (January to December) and to ten months of the year 2014 (January to October) was checked with the data in the Lages/Tractebel Electronic Planning Production Control system.

The quantities of ash produced and transported are monthly controlled and presented in Excel Spreadsheets /Ref 3/ and in /Ref 4/.

It was utilized a Random Sampling of three months of 2013 (March, August and November) and of 2 months of 2014 (April and September) /Ref 3/ and in /Ref 4/.

The calibration of the Truck Scales was checked. It was correct and covering all the monitored period /Ref 6/ and /Ref 7/.

D.5. Clarification requests, corrective action requests and forward action requests raised

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring report form	--	--	--
Compliance of the project implementation with the registered PDD	--	--	--
Post-registration changes	--	AVD 01 AVD 02	--
Compliance of the monitoring plan with the monitoring methodology including applicable tool and standardized baseline	--	--	--
Compliance of monitoring activities with the registered monitoring plan	--	--	--
Compliance with the calibration frequency requirements for measuring instruments	--	AVD 03 AVD 04 AVD 05	--
Assessment of data and calculation of emission reductions or net removals	--	--	--
Others (please specify)	--	--	--
Total	--	5	--

SECTION E. Verification findings

E.1. Compliance of the monitoring report with the monitoring report form

Means of verification	Comparison between the Instructions for filling out the Monitoring Report Form, version 05.1, and the Monitoring Report version 02, forwarded by Tractebel Energia S/A.
Findings	With the exception of the 5 CARs opened and closed, the Monitoring Report version 02 is in accordance with the Attachment "Instructions for filling out the monitoring report form".
Conclusion	OK.

E.2. Remaining forward action requests from validation and/or previous verification

There were not any remaining forward action requests from previous validation and/or verifications.

E.3. Compliance of the project implementation with the registered project design document

Means of verification	Analysis of Documents, Site visit held on 27/04/2016 and meetings with the plant staff.
Findings	The project implementation and operation complies with the registered project design document version 03, from February 2011, in accordance with applicable verification requirements related to the compliance of the project implementation with the registered PDD in the VVS. As this is a small-scale CDM project activity following the Methodology AMS.III.E, it shall emit directly less than 15 kilotonnes of carbon dioxide equivalent annually. It remains within the limit of its type, in accordance with applicable specific verification requirements for small-scale project activities in the VVS.
Conclusion	OK.

E.4. Post-registration changes

E.4.1. Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline

There are not any temporary deviations from the PDD version 03, from February 2011, accepted on 30/03/2011.

E.4.2. Corrections

N/A.

E.4.3. Changes to the start date of the crediting period

N/A.

E.4.4. Inclusion of a monitoring plan to a registered project activity

N/A.

E.4.5. Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline

N/A.

E.4.6. Changes to the project design of a registered project activity

N/A.

E.4.7. Types of changes specific to afforestation and reforestation project activities

N/A.

E.5. Compliance of monitoring plan with the monitoring methodology including applicable tool and standardized baseline

Means of verification	The verification team has verified the monitoring plan against the applied methodology AMS-III.E version 07, including the data and parameters required to be monitored, measurement procedures, monitoring frequency and QA/QC procedures as described in the registered PDD version 03.
Findings	No issue found.
Conclusion	Corresponding to paragraph 385 of VVS version 9, Bureau Veritas Certification confirms that the monitoring plan is in accordance with the applicable methodology including applicable tools applied to the project.

E.6. Compliance of monitoring activities with the registered monitoring plan**E.6.1. Data and parameters fixed ex ante or at renewal of crediting period**

Means of verification	MCF [N] - Methane correction factor. During this monitoring period only wastes from Spot Market and residues composed of fine branches lower than 15cm diameter, obtained from the regular thinning of planted <i>pinus</i> in the region, also called "torete", were used. The methane correction factor Default value of 0.4, applied to wood waste supplied by the Spot Market, and MCF = 0, used for "torete", were determined ex-ante in the registered PDD. These values, used in the monitoring report, have been verified against the registered PDD and found consistent.
Findings	No issue found.
Conclusion	Bureau Veritas Certification confirms that data and parameter fixed ex-ante have been corrected listed.
Means of verification	DOC [O] - Degradable organic carbon. According to IPCC volume 5, chapter 2, page 2.16, table 2.5, as the waste is composed of 100% Wood, the applicable default value is 0.43.
Findings	No issue found.
Conclusion	Bureau Veritas Certification confirms that the value 0.43 was checked against the IPCC volume 5, chapter 2, page 2.16, table 2.5 and was corrected listed.

Means of verification	DOC _F [P] - Fraction DOC dissimilated to landfill gas. According to IPCC volume 5, chapter 3, page 3.13: The recommended default value for DOC _F is 0.5 (under the assumption that the SWDS environment is anaerobic and the DOC values include lignin).
Findings	No issue found.
Conclusion	Bureau Veritas Certification confirms that the value 0.5 was checked against the IPCC volume 5, chapter 3, page 3.13 and was considered correct.
Means of verification	F [Q]- Fraction of CH ₄ in landfill gas. According to IPCC volume 5, chapter 3, Page 3.15: The recommended default value for F = 0.5 was determined ex-ante in the registered PDD. This value, used in the monitoring report, has been verified against the registered PDD and found consistent.
Findings	No issue found.
Conclusion	Bureau Veritas Certification confirms that data and parameter fixed ex-ante have been corrected listed.
Means of verification	E _{biomass} [S] - Energy content of biomass. Considered 1,850 kcal/kg (7,746 kJ/kg), which is default value for wood waste in the Lages region, according to values reported in the UNIPLAC study, and was the value validated in the PDD. This value is more conservative than that obtained from samples analysed periodically in laboratory. This value, used in the monitoring report, has been verified against the registered PDD and found consistent.
Findings	No issue found.
Conclusion	Bureau Veritas Certification confirms that data and parameter fixed ex-ante has been corrected listed.
Means of verification	CH ₄ bio_comb [T] - CH ₄ emission factor for biomass and waste (which includes dung and agricultural, municipal and industrial wastes) combustion. Considered = 11. According to IPCC volume 2, chapter 2, page 2.25, table 2.6: Default value according to AMS-III.E. Version 07 is 300 kgCH ₄ /TJ, which was based on general IPCC default value. However, 11 kgCH ₄ /TJ is used since this is the specific IPCC default value for wood waste boilers.
Findings	No issue found.
Conclusion	Bureau Veritas Certification confirms that data and parameter fixed ex-ante has been corrected listed.
Means of verification	N ₂ O _{bio} _comb [U] - N ₂ O emission factor for biomass and waste (which includes dung and agricultural, municipal and industrial wastes) combustion. Considered = 7. According to IPCC volume 2, chapter 2, page 2.25, table 2.6: Default value according to AMS-III.E. Version 07 is 4 kgN ₂ O/TJ, which was based on IPCC default value. However, 7 kgN ₂ O/TJ is used since this is the specific IPCC default value for wood waste boilers.
Findings	No issue found.
Conclusion	Bureau Veritas Certification confirms that data and parameter fixed ex-ante has been corrected listed.
Means of verification	CH ₄ _GWP [V] - Global Warming Potential for CH ₄ . Considered = 25. Official value, according to UNFCCC for CDM project activities and PoAs in the second commitment period. According to UNFCCC, EB 69 Report Annex 3 Page 1, "All monitoring, verifications and requests for issuance of certified emission reductions (CERs) in respect of emission reductions and removals achieved by CDM project activities and PoAs in the second commitment period (from 1 January 2013) shall be calculated using the GWPs as applied by decision 4/CMP.7 ", that use the errata from Table 2.14 of IPCC AR4, with CH ₄ GWP=25.

Findings	CAR AVD 01.
Conclusion	Bureau Veritas Certification confirms that data and parameter fixed ex-ante has been corrected listed.
Means of verification	N ₂ O_GWP [W] - Global Warming Potential for N ₂ O. Considered = 298. Official value, according to UNFCCC for CDM project activities and PoAs in the second commitment period. According to UNFCCC, EB 69 Report Annex 3 Page 1, "All monitoring, verifications and requests for issuance of certified emission reductions (CERs) in respect of emission reductions and removals achieved by CDM project activities and PoAs in the second commitment period (from 1 January 2013) shall be calculated using the GWPs as applied by decision 4/CMP.7 ", that use the errata from <i>Table 2.14 of IPCC AR4, with N₂O GWP=298</i> .
Findings	CAR AVD 01.
Conclusion	Bureau Veritas Certification confirms that data and parameter fixed ex-ante has been corrected listed.
Means of verification	D _{diesel} [X] - Diesel oil density. Considered = 8.8E-4. According to Portaria nº 15 of Jul 17th, 2006 of the Brazilian Petroleum Agency (ANP), the value ranges 820 –880 kg/m ³ . The value used is more conservative.
Findings	No issue found.
Conclusion	Bureau Veritas Certification confirms that data and parameter fixed ex-ante has been corrected listed.
Means of verification	VEF_CO ₂ [Y] - CO ₂ emission factor for trucks. Considered: a) 1.097 kgCO ₂ /km. b) 3,172.31 kgCO ₂ /t. According to IPCC, table 1-32 page 1.75: Default values for US heavy duty diesel vehicles, uncontrolled. These values are not presented in the 2006 IPCC Guidelines for National Greenhouse Gas Inventories.
Findings	No issue found.
Conclusion	Bureau Veritas Certification confirms that data and parameter fixed ex-ante has been corrected listed.
Means of verification	VEF_CH ₄ [Z] - CH ₄ emission factor for trucks. Considered: a) 6.0E-5 kgCH ₄ /km b) 0.18 kgCH ₄ /t. According to IPCC, Table 1-32, pg. 1.75. Default values for US heavy duty diesel vehicles, uncontrolled. These values are not presented in the 2006 IPCC Guidelines for National Greenhouse Gas Inventories.
Findings	No issue found.
Conclusion	Bureau Veritas Certification confirms that data and parameter fixed ex-ante has been corrected listed.
Means of verification	VEF_N ₂ O [AA] - N ₂ O emission factor for trucks. Considered: a) 3.1E-5 kgN ₂ O/km. b) 0.09 kgN ₂ O/t According to IPCC, Table 1-32, pg. 1.75. Default values for US heavy duty diesel vehicles, uncontrolled. These values are more conservative than that presented in the 2006 IPCC Guidelines for National Greenhouse Gas Inventories.
Findings	No issue found.
Conclusion	Bureau Veritas Certification confirms that data and parameter fixed ex-ante has been corrected listed.

been corrected listed.

E.6.2. Data and parameters monitored

Means of verification	<p>Fuel – Amount of wood waste combusted (ID 1). Amount of wood waste fed into the boiler and consumed by the Project. Monitored value: 01/01/2013 to 31/12/2013 = 308,228.00 t. 01/01/2014 to 31/10/2014 = 296,935.00 t. The wood waste fed into the boiler is measured through a dynamic scale at the entrance of the furnace and automatically registered in the Lages/Tractebel Electronic Planning Production Control System. Measuring frequency: Continuously. Reporting frequency: Monthly. The reported data are compared with the data in the Lages/Tractebel Electronic Planning Production Control System and are cross checked with purchase receipts. Calibration frequency: Calibration has been carried out within 18 months. The INMETRO, Regulatory Agency of National Metrology, through its visits, along with Toledo, manufacturer accredited by INMETRO, ensures the functionality of the electronic scales. This parameter is used for Baseline, Project activity and Leakage emission calculations. To accurately calculate the emission reductions (ERs) from avoided methane emissions during the operation of the Lages Project, the amounts of wood waste consumed (QCbiomass) are monitored continuously and totalized on an annual basis.</p>
Findings	CAR AVD 03.
Conclusion	<p>Corresponding to the paragraphs 392 and 393 of VVS version 09.0, Bureau Veritas Certification can confirm that:</p> <ul style="list-style-type: none"> -The monitoring has been carried out in accordance with the monitoring plan contained in the registered PDD. -All the parameters required by the monitoring plan have been sufficiently monitored and correctly listed. The monitored data for required parameters have been verified by checking the whole information flow.
Means of verification	<p>Fuel – Amount of wood waste obtained from Spot Market (ID4). Amount of wood waste purchased from Spot Market by the Project. Monitored value: 01/01/2013 to 31/12/2013 = 311,150.61 t. 01/01/2014 to 31/10/2014 = 302,652.82 t. Torete amount: 01/01/2013 to 31/12/2013 = 61,480.99 t (19.76%). 01/01/2014 to 31/10/2014 = 32,477.93 t (10.73%). The wood waste purchased from the Spot Market is measured through a truck scale at the entrance of the plant and automatically registered in the Lages/Tractebel Electronic Planning Production Control System. Measuring frequency: Continuously. Reporting frequency: Monthly. Calibration frequency: Calibration has been carried out within 18 months. The reported data are compared with the data in the Lages/Tractebel Electronic Planning Production Control System and are cross checked with purchase receipts. This parameter is used for Baseline, Project activity and Leakage emission calculations. To accurately calculate the emission reductions (ERs) from avoided methane emissions during the operation of the Lages Project, the amounts of wood waste consumed (QCbiomass) are monitored continuously and totalized on an annual basis. due to the “torete” consumption and considering the degradation and methane generation from this wood waste when it is piled and left to decay occurs at a much lower rate than other wood waste, by conservativeness, the percentage of this wood waste purchased from the Spot Market) were applied as a discount factor over the wood waste amount treated under the Project. During this monitoring period there was not any wood waste purchased/consumed from the suppliers Battistella and Sofia.</p>

Findings	CAR AVD 04.
Conclusion	Corresponding to the paragraphs 392 and 393 of VVS version 09.0, Bureau Veritas Certification ca confirm that: -The monitoring has been carried out in accordance with the monitoring plan contained in the registered PDD. -All the parameters required by the monitoring plan have been sufficiently monitored and correctly listed. The monitored data for required parameters have been verified by checking the whole information flow.
Means of verification	On-site transportation – Diesel oil purchase (ID 6). Amount of Diesel oil purchased by the Project and used on the on-site transportation. Source of data: Invoices and Diesel feed pump at internal gas station. The amount of diesel oil used inside the Lages Project was monthly monitored through the invoices emitted by the proper supplier and amounts already stored (initial and final inventory). Monitored value: 01/01/2013 to 31/12/2013 = 67,125.90 liters. 01/01/2014 to 31/10/2014 = 57,336.20 liters. Monitoring equipment: Diesel feed pump at internal gas station. Calibration frequency: Resolution ANP no 12, March 3rd, 2007 does not refer to a specific period for calibration. Calibration has been carried out within 18 months. The INMETRO, Regulatory Agency of National Metrology, through its visits, ensures the functionality of the device and its compliance. Measuring frequency: Daily. Reporting frequency: Monthly. The reported data was compared with the data in the Lages/Tractebel Electronic Planning Production Control System and cross checked with purchase receipts. This parameter is used for project activity emission calculations.
Findings	CAR AVD 05.
Conclusion	Corresponding to the paragraphs 392 and 393 of VVS version 09.0, Bureau Veritas Certification ca confirm that: -The monitoring has been carried out in accordance with the monitoring plan contained in the registered PDD. -All the parameters required by the monitoring plan have been sufficiently monitored and correctly listed. The monitored data for required parameters have been verified by checking the whole information flow.
Means of verification	Off-site transportation – Location of wood waste suppliers compared to Lages site (ID 7). Weighted average round trip distance between the sites of the wood waste suppliers and Lages site. Source of data: Wood waste invoices/receipts. The data about the round trip distance between the wood waste suppliers and the Lages Project site and the truck capacity were monitored. The weighted average round trip distance and truck capacity of all active wood waste suppliers to Lages Project site which are necessary to calculate the emissions from the off-site transportation. Monitored value: 01/01/2013 to 31/12/2013 = 56.4 km. 01/01/2014 to 31/10/2014 = 81.3 km. Measuring frequency: Each purchase receipt, address on purchase receipts. Reporting frequency: Monthly. Calculated the weighted average round trip distance of all active wood waste suppliers of Lages Project. The reported data was compared with the data in the Lages/Tractebel Electronic Planning Production Control System and cross checked with purchase receipts. This parameter is used for Leakage emission calculation.
Findings	No issue found.
Conclusion	Corresponding to the paragraphs 392 and 393 of VVS version 09.0, Bureau Veritas Certification ca confirm that: -The monitoring has been carried out in accordance with the monitoring plan contained in the registered PDD.

	-All the parameters required by the monitoring plan have been sufficiently monitored and correctly listed. The monitored data for required parameters have been verified by checking the whole information flow.
Means of verification	<p>Off-site transportation – Truck capacity (ID 8).</p> <p>Truck capacity of all active wood waste suppliers to Lages Project site.</p> <p>Source of data: Electronic scale (way in – way out).</p> <p>The data about the round trip distance between the wood waste suppliers and the Lages Project site and the truck capacity were monitored. The weighted average round trip distance and truck capacity of all active wood waste suppliers to Lages Project site which are necessary to calculate the emissions from the off-site transportation.</p> <p>Monitored value:</p> <p>01/01/2013 to 31/12/2013 = 18.1 tonnes.</p> <p>01/01/2014 to 31/10/2014 = 18.2 tonnes.</p> <p>Monitoring equipment: Entrance truck scales Toledo.</p> <p>Calibration frequency: calibration is carried out within 18 months.</p> <p>Measuring frequency: Each transportation receipt.</p> <p>Reporting frequency: Monthly</p> <p>The receipts of wood waste are registered at entrance of Lages, including the actual weight of each truck. The information from the Lages/Tractebel Electronic Planning Production Control System was used to calculate the weighted average truck capacity of all active wood waste suppliers of Lages Project.</p> <p>The reported data was compared with the data in the Lages/Tractebel Electronic Planning Production Control System.</p> <p>This parameter is used for Leakage emission calculation.</p>
Findings	CAR AVD 04.
Conclusion	<p>Corresponding to the paragraphs 392 and 393 of VVS version 09.0, Bureau Veritas Certification ca confirm that:</p> <p>-The monitoring has been carried out in accordance with the monitoring plan contained in the registered PDD.</p> <p>-All the parameters required by the monitoring plan have been sufficiently monitored and correctly listed. The monitored data for required parameters have been verified by checking the whole information flow.</p>
Means of verification	<p>Ash transportation – Location of ash disposal site (ID 9).</p> <p>Weighted average round trip distance between the ash disposal sites and Lages site.</p> <p>Source of data: Ash invoices/receipts.</p> <p>The data about the round trip distance between the Lages Project site and ash disposal sites and the truck capacity were monitored.</p> <p>During the monitoring period, the ash produced by the project activity was disposed at Lages Region aligned with the Environmental Agency approval, reducing the round trip distance and consequently greenhouse gas emissions from ash transportation in comparison with the previous monitoring reports. Until July 2008 the ash produced had been transported to Jorge Lacerda Thermoelectric Power Plant, in Capivari de Baixo municipality, State of Santa Catarina, to be disposed in an appropriate manner.</p> <p>Monitored value:</p> <p>01/01/2013 to 31/12/2013 = 69.0 km.</p> <p>01/01/2014 to 31/10/2014 = 73.1 km.</p> <p>Measuring frequency: Each transport.</p> <p>Reporting frequency: Monthly.</p> <p>Calculated the weighted average round trip distance between the ash disposal sites and Lages Project site.</p> <p>The reported data was compared with the data in the Lages/Tractebel Electronic Planning Production Control System.</p> <p>This parameter is used for Leakage emission calculation.</p>
Findings	No issue found.
Conclusion	<p>Corresponding to the paragraphs 392 and 393 of VVS version 09.0, Bureau Veritas Certification ca confirm that:</p> <p>-The monitoring has been carried out in accordance with the monitoring plan contained in the registered PDD.</p>

	-All the parameters required by the monitoring plan have been sufficiently monitored and correctly listed. The monitored data for required parameters have been verified by checking the whole information flow.
Means of verification	<p>Ash transportation – Truck capacity (ID 10).</p> <p>Capacity of the trucks transporting the ash produced in Lages Project site to the disposal sites.</p> <p>Source of data: Electronic scale (way in – way out).</p> <p>The data about the round trip distance between the Lages Project site and ash disposal sites and the truck capacity were monitored.</p> <p>During the monitoring period, the ash produced by the project activity was disposed at Lages Region aligned with the Environmental Agency approval, reducing the round trip distance and consequently greenhouse gas emissions from ash transportation in comparison with the previous monitoring reports. Until July 2008 the ash produced had been transported to Jorge Lacerda Thermoelectric Power Plant, in Capivari de Baixo municipality, State of Santa Catarina, to be disposed in an appropriate manner.</p> <p>Monitored value:</p> <p>01/01/2013 to 31/12/2013 = 15.1 tonnes.</p> <p>01/01/2014 to 31/10/2014 = 15.3 tonnes.</p> <p>Monitoring equipment: Entrance truck scales Toledo.</p> <p>Calibration frequency: calibration is carried out within 18 months.</p> <p>Measuring frequency: Each transportation receipt.</p> <p>Reporting frequency: Monthly.</p> <p>The ash transportation receipts are registered at exit of Lages facilities, including the actual weight of each truck. The information from the Lages/Tractebel Electronic Planning Production Control System was used to calculate the weighted average truck capacity transporting ashes from Lages Project to the disposal sites.</p> <p>The reported data was compared with the data in the Lages/Tractebel Electronic Planning Production Control System.</p> <p>This parameter is used for Leakage emission calculation.</p>
Findings	CAR AVD 04.
Conclusion	<p>Corresponding to the paragraphs 392 and 393 of VVS version 09.0, Bureau Veritas Certification can confirm that:</p> <p>-The monitoring has been carried out in accordance with the monitoring plan contained in the registered PDD.</p> <p>-All the parameters required by the monitoring plan have been sufficiently monitored and correctly listed. The monitored data for required parameters have been verified by checking the whole information flow.</p>
Means of verification	<p>Ash production – Amount of ash produced (ID 11).</p> <p>Amount of ash produced in the Lages Project.</p> <p>Source of data: Electronic scale (way in – way out).</p> <p>The amount of ash produced and transported by Lages Project was monthly monitored.</p> <p>Monitored value:</p> <p>01/01/2013 to 31/12/2013 = 22,478.78 tonnes.</p> <p>01/01/2014 to 31/10/2014 = 18,512.22 tonnes.</p> <p>Monitoring equipment: Entrance truck scales Toledo.</p> <p>Calibration frequency: calibration is carried out within 18 months.</p> <p>Measuring frequency: Each transport. All ash trucks are weighed and the weight is registered into the Lages/Tractebel Electronic Planning Production Control System.</p> <p>Reporting frequency: Monthly.</p> <p>The reported data was compared with the data in the Lages/Tractebel Electronic Planning Production Control System.</p> <p>This parameter is used for Leakage emission calculation.</p>
Findings	CAR AVD 04.
Conclusion	<p>Corresponding to the paragraphs 392 and 393 of VVS version 09.0, Bureau Veritas Certification can confirm that:</p> <p>-The monitoring has been carried out in accordance with the monitoring plan contained in the registered PDD.</p> <p>-All the parameters required by the monitoring plan have been sufficiently monitored and correctly listed. The monitored data for required parameters have been verified</p>

	by checking the whole information flow.
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E.6.3. Implementation of sampling plan

Means of verification	N/A.
Findings	N/A.
Conclusion	N/A.

E.7. Compliance with the calibration frequency requirements for measuring instruments

Means of verification	<p>Verification of the specified calibration frequency and checking whether the Calibration Certificates cover all the monitoring period.</p> <p>The parameters monitored in Section E.6.2 that need calibration are:</p> <ul style="list-style-type: none"> -One Toledo truck scale model 820-J # 03077001100 – Calibration Frequency = 18 months. Calibration Certificate # 0988138, of 23/08/2012, Calibration Certificate # 1499344-2, of 20/08/2013 and Calibration Certificate # 1084857, of 08/07/2014 cover all the monitoring period. - One Toledo truck scale model 820-J # 03077001101 – Calibration Frequency = 18 months. Calibration Certificate # 0988137, of 23/08/2012, Calibration Certificate # 1499343-0, of 20/08/2013 and Calibration Certificate # 1084858, of 08/07/2014 cover all the monitoring period. -One Toledo Dynamic Scale # 3092000123 – Calibration Frequency = 18 months. Calibration Certificate # 0066377, of 08/11/2012 and Calibration Certificate # 0066752, of 26/12/2013 cover all the monitoring period. -One Diesel Oil Pump # 540670 – Calibration Frequency = 18 months. Calibration Certificate # 835573-3, of 20/04/2012, Calibration Certificate # 1495970-7, of 27/06/2013 cover all the monitoring period.
Findings	CAR AVD 03, CAR AVD 04, CAR AVD 05.
Conclusion	<p>Corresponding to the paragraph 400 of VVS version 09.0, Bureau Veritas Certification can confirm that:</p> <ul style="list-style-type: none"> -The calibration is conducted at the frequency specified by the methodology and the monitoring plan contained in the registered PDD.

E.8. Assessment of data and calculation of emission reductions or net removals**E.8.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks**

Means of verification	<p>A complete set of data for the specified monitoring period is available.</p> <p>The data pertaining to all the above parameters are maintained in the identified records. All the data are in compliance with that stated in the monitoring report version 02.</p> <p>As per the methodology AMS-III.E. (Version 7), and the registered PDD, the emission reductions for the project are calculated as the baseline emissions minus the project emissions and leakage.</p> <p>The emission reductions are calculated using the following formula:</p> $ER_y = BE_y - PE_y - LE_y$ <p>Where:</p> <ul style="list-style-type: none"> ER_y = Emission reductions BE_y = Baseline emissions PE_y = Project emissions LE_y = Leakage emissions <p>The baseline methane emissions from biomass decay are calculated using the formulae below:</p> $BE_y = QT_{biomass} \times CH4_IPCC_{decay} \times CH4_GWP$ <p>Where:</p> <ul style="list-style-type: none"> BE_y = Baseline methane emissions from biomass decay (tCO₂e); QT_{biomass} = Quantity of biomass treated under the project activity (t); CH₄_IPCC_{decay} = CH₄_IPCC_{decay}: IPCC CH₄ emission factor for decaying biomass in the region of the project activity (tCH₄/t). CH₄_GWP = Global Warming Potential for CH₄ (tCO₂e/tCH₄). <p>Thus, the baseline emissions of the project are calculated as follows:</p>
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	<p>From 01/01/2013 to 31/12/2013: $BEy = 247,324.50 \times 0.0573 \times 25 = 354,498 \text{ tCO}_2\text{e}$. From 01/01/2014 to 31/10/2014: $BEy = 265,070.65 \times 0.0573 \times 25 = 379,935 \text{ tCO}_2\text{e}$. Total for the monitoring period = 734,433 tCO₂e.</p>
Findings	No issues found.
Conclusion	<p>Corresponding to the paragraph 403 of VVS version 09.0, Bureau Veritas Certification can confirm that:</p> <ul style="list-style-type: none"> -Data used for the determination of the emission reductions are available and monitored in accordance with the revised approved monitoring plan contained in the registered PDD. -Information and data provided in the monitoring report have been cross-checked with other sources such as plant logbooks, inventories, purchase records, laboratory analysis. -Appropriate methods and formulae for calculating baseline emissions have been followed. -Assumptions, emission factors and default values that were applied in the calculations have been justified.

E.8.2. Calculation of project GHG emissions or actual net GHG removals by sinks

Means of verification	<p>The emissions due to the project activity within the project boundary comprise: CH₄ emissions and N₂O emissions due to combustion of the wood waste (PE_y). CO₂, CH₄ and N₂O emissions due to on-site wood waste transportation.</p> <p>The formulae presented in the AMS-III.E. (Version 07) to calculate the emissions of CH₄ and N₂O of the project activity considers only the emissions from the wood waste combustion as presented below:</p> $PE_y = QC_{biomass} \times E_{biomass} (CH_{4bio_comb} \times CH_4_GWP + N_{2Obio_comb} \times N_2O_GWP) / 10^6$ <p>Where:</p> <p>PE_y: Project activity emissions (ktCO₂e) QC_{biomass}: Quantity of biomass consumed by the project activity (t) E_{biomass}: Energy content of biomass (TJ/t) CH₄_{bio_comb}: CH₄ emission factor for biomass and waste (which includes dung and agricultural, municipal and industrial wastes) combustion (kgCH₄/TJ) CH₄_GWP: Global Warming Potential for CH₄ (tCO₂e/tCH₄) N₂O_{bio_comb}: N₂O emission factor for biomass and waste (which includes dung and agricultural, municipal and industrial wastes) combustion (kgN₂O/TJ); N₂O_GWP: Global Warming Potential for N₂O (tCO₂e/tN₂O).</p> <p>Emissions from on-site transportation (OT_GHG_y) are calculated using the following equation:</p> $OT_GHG_y = Q_{diesel} \times D_{diesel} \times (VEF_CO_2 + VEF_CH_4 \times CH_4_GWP + VEF_N_2O \times N_2O_GWP) / 10^6$ <p>Where:</p> <p>OT_GHG_y: Emissions from on-site transportation (ktCO₂e) Q_{diesel}: Diesel oil consumption (l) D_{diesel}: Diesel oil density (t/l) VEF_CO₂: CO₂ emission factor for trucks (kgCO₂/t) VEF_CH₄: CH₄ emission factor for trucks (kgCH₄/t) CH₄_GWP: Global Warming Potential for CH₄ (tCO₂e/tCH₄) VEF_N₂O: N₂O emission factor for trucks (kgN₂O/t) N₂O_GWP: Global Warming Potential for N₂O (tCO₂e/tN₂O).</p> <p>Project emissions:</p> <p>From 01/01/2013 to 31/12/2013: 5,637 tCO₂e. From 01/01/2014 to 31/10/2014: 5,430 tCO₂e. Total project emissions = 11,067 tCO₂e.</p> <p>Emissions from on-site transportation (OT_GHG_y) are calculated using the following equation:</p> <p>Emissions from on-site transportation:</p> $OT_GHG_y = Q_{diesel} \times D_{diesel} \times (VEF_CO_2 + VEF_CH_4 \times CH_4_GWP + VEF_N_2O \times N_2O_GWP) / 10^6$ <p>Where:</p> <p>OT_GHG_y: Emissions from on-site transportation (ktCO₂e)</p>
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	<p>Qdiesel: Diesel oil consumption (l) Ddiesel: Diesel oil density (t/l) VEF_CO2: CO2 emission factor for trucks (kgCO2/t) VEF_CH4: CH4 emission factor for trucks (kgCH4/t) CH4_GWP: Global Warming Potential for CH4 (tCO2e/tCH4) VEF_N2O: N2O emission factor for trucks (kgN2O/t) N2O_GWP: Global Warming Potential for N2O (tCO2e/tN2O). Emissions from on-site transportation: From 01/01/2013 to 31/12/2013: 189 tCO2e. From 01/01/2014 to 31/10/2014: 162 tCO2e. Total emissions from on-site transportation = 351 tCO2e. Total of project emissions and on-site transportation: 11,067 + 351 = 11,418 tCO2e.</p>
Findings	No issues found.
Conclusion	<p>Corresponding to the paragraph 403 of VVS version 09.0, Bureau Veritas Certification can confirm that:</p> <ul style="list-style-type: none"> -Data used for the determination of the emission reductions are available and monitored in accordance with the revised approved monitoring plan contained in the registered PDD. -Information and data provided in the monitoring report have been cross-checked with other sources such as plant logbooks, inventories, purchase records, laboratory analysis. -Appropriate methods and formulae for calculating baseline emissions have been followed. -Assumptions, emission factors and default values that were applied in the calculations have been justified.

E.8.3. Calculation of leakage GHG emissions

Means of verification	<p>The two sources of leakage are related to the off-site wood waste transportation and ash transportation that is produced in the wood waste combustion process. Emissions from off-site wood waste transportation are calculated using the following equation: $BT_GHGy = QC_{biomass} / TC_{biomass} * AVD_{biomass} * (VEF_CO2 + VEF_CH4 * CH4_GWP + VEF_N2O * N2O_GWP) / 10^6$ Where: BT_GHGy: Emission from off-site transportation (ktCO2e); QCbiomass: Quantity of biomass consumed by project activity (t); TCbiomass: Truck average capacity for biomass transportation (t); AVDbiomass: Average round trip distance to biomass supply sites (km); VEF_CO2: CO2 emission factor for trucks (kgCO2/km); VEF_CH4: CH4 emission factor for trucks (kgCH4/km); CH4_GWP: Global Warming Potential for CH4 (tCO2e/tCH4); VEF_N2O: N2O emission factor for trucks (kgN2O/km); N2O_GWP: Global Warming Potential for N2O (tCO2e/tN2O). Emissions from ash transportation are calculated using the following equation: $AT_GHGy = Q_{ash} / TC_{ash} * AVD_{ash} * (VEF_CO2 + VEF_CH4 * CH4_GWP + VEF_N2O * N2O_GWP) / 10^6$ Where: AT_GHGy: Emission from ash transportation (ktCO2e); Qash: Quantity of ash produced by the project activity (t); TCash: Truck average capacity for ash transportation (t); AVDash: Round trip distance to disposal site (km); VEF_CO2: CO2 emission factor for trucks (kgCO2/km); VEF_CH4: CH4 emission factor for trucks (kgCH4/km); CH4_GWP: Global Warming Potential for CH4 (tCO2e/tCH4); VEF_N2O: N2O emission factor for trucks (kgN2O/km); N2O_GWP: Global Warming Potential for N2O (tCO2e/tN2O). Therefore, the leakage emissions (LEy) are the sum of the emissions from off-site transportation (BT_GHGy) and from ash transportation (AT_GHGy): $LEy = BT_GHGy + AT_GHGy$ Emissions from off-site transportation: From 01/01/2013 to 31/12/2013: 1,063 tCO2e. From 01/01/2014 to 31/10/2014: 1,470 tCO2e.</p>
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	<p>Total emissions from on-site transportation = 2,533 tCO₂e.</p> <p>Emissions from ash transportation:</p> <p>From 01/01/2013 to 31/12/2013: 114 tCO₂e.</p> <p>From 01/01/2014 to 31/10/2014: 98 tCO₂e.</p> <p>Total emissions from ash transportation = 212 tCO₂e.</p> <p>Total leakage emissions:</p> <p>2,533 + 212 = 2,745 tCO₂e.</p>
Findings	No issues found.
Conclusion	<p>Corresponding to the paragraph 403 of VVS version 09.0, Bureau Veritas Certification can confirm that:</p> <ul style="list-style-type: none"> -Data used for the determination of the emission reductions are available and monitored in accordance with the revised approved monitoring plan contained in the registered PDD. -Information and data provided in the monitoring report have been cross-checked with other sources such as plant logbooks, inventories, purchase records, laboratory analysis. -Appropriate methods and formulae for calculating baseline emissions have been followed. -Assumptions, emission factors and default values that were applied in the calculations have been justified.

E.8.4. Summary of calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

Means of verification	<p>Emission reductions</p> <p>The emission reductions during the monitoring period, from 01/01/2013 to 31/10/2014, are calculated as follows:</p> $ER_y = BE_y - PE_y - LE_y$ $ER_y = 734,433 - 11,418 - 2,745 = 720,270 \text{ tCO}_2\text{e.}$ <p>The verification team has checked the calculation in the emission reductions calculation spread-sheet and found that the calculation and the result are correct.</p>
Findings	No issues found.
Conclusion	<p>Corresponding to the paragraph 403 of VVS version 09.0, Bureau Veritas Certification can confirm that:</p> <ul style="list-style-type: none"> -Data used for the determination of the emission reductions are available and monitored in accordance with the revised approved monitoring plan contained in the registered PDD. -Information and data provided in the monitoring report have been cross-checked with other sources such as plant logbooks, inventories, purchase records, laboratory analysis. -Appropriate methods and formulae for calculating baseline emissions have been followed. -Assumptions, emission factors and default values that were applied in the calculations have been justified.

E.8.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD

Means of verification	<p>Values estimated in ex-ante calculation of registered PDD = 360,596 tCO₂e.</p> <p>Actual values achieved during this monitoring period = 720,270 tCO₂e.</p> <p>Balance = 359,674 tCO₂e.</p>
Findings	No issues found.
Conclusion	Bureau Veritas Certification confirms that the actual emission reductions are approximately 2 times higher than the estimated value during the current monitoring period.

E.8.6. Remarks on difference from estimated value in registered PDD

Means of verification	There are 2 times emission reductions in this monitoring period than in the registered PDD.
Findings	No issues found.
Conclusion	<p>Bureau Veritas Certification confirms that the variation is due to:</p> <p>The amount of the additional 359,674 tCO₂e is around 100% higher than the 360.596 tonnes of CO₂e, estimated in the registered PDD in the same period.</p> <p>Due to the drier season occurred during the years 2013 and 2014, the hydroelectric power generation, which represents almost 70% of the total electricity generation of</p>

	<p>Brazil, was lower than the Country needs. The contribution of alternative sources of electricity generation was required by the Brazilian Government to supply the necessary electricity to the Brazilian grid.</p> <p>As there was an idle capacity generation in the project cogeneration plant and also an availability of wood waste, even with a lower emission factor due to reduced degradable organic carbon fraction dissimilated into landfill gas and a higher degradable organic carbon in wood (IPCC2006, compared to IPCC1996), it was possible to supply additional electricity to the Brazilian Grid.</p> <p>Consequently, the quantity of treated wood waste amount was higher than that estimated in the PDD.</p>
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E.8.7. Actual GHG emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

Means of verification	This is the 7 th Verification Monitoring Report, version 02.
Findings	No issues identified.
Conclusion	<p>GHG emission reductions or net GHG removals by sinks reported from 1 January 2013 onwards = 720,270 tonnes of CO₂e.</p> <p>This is the final verification of the project, with an option of a 10 year fixed credit period, from 01/11/2004 to 31/10/2014.</p>

SECTION F. Internal quality control

The Project Participants must designate a competent manager who will be in charge of the generation of Emission Reductions, including monitoring, record keeping, computation of ERs, audits and verifications.

The manager will officially sign off on all GHG emissions worksheets.

Well-defined protocols and routine procedures with good, professional data entry, extraction and reporting procedures will reduce costs and time needed, while making it considerably easier for the verifiers to do their work.

Proper management processes and system records must be kept by the Project Participants, as the verifiers will request copies of such records to judge compliance with the required management system.

SECTION G. Verification opinion

Bureau Veritas Certification has performed the 7th periodic verification of the Lages Methane Avoidance Project in Lages Cogeneration Facility, CDM Registration Reference Number 0268, located at Vivandério Santos do Vale Street, in Lages municipality, State of Santa Catarina, Brazil, and applying the methodology AMS-III.E, Version 07 - Avoidance of methane production from biomass decay through controlled combustion. The Project is under operation since 23 December 2003 by Lages Bioenergética Ltda., a Special Purpose Company fully owned by Tractebel Energia S.A., specially constituted to build, operate and maintain the Lages Project. The verification was performed based on the UNFCCC criteria and host country criteria and also on the criteria given to provide for consistent project operations, monitoring and reporting.

The verification consisted of the following three phases: i) desk review of the project design, the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion.

The management of Tractebel Energia S/A is responsible for the preparation of the GHG emissions data and the reported GHG emission reductions of the project on the basis set out within the monitoring plan contained in the registered PDD. The development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of GHG emission reductions from the project, is the responsibility of the management of the project.

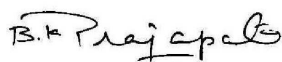
Bureau Veritas Certification has verified the project Monitoring Report, version 02, dated 20/05/2016, for the reporting period as indicated below. Bureau Veritas Certification confirms that the project is implemented as described in the validated and registered project design documents. Installed equipments being essential for generating emission reductions run reliably and are calibrated appropriately. The monitoring system is in place and the Project is generating GHG emission reductions as a CDM project.

SECTION H: Certification Statement

"Bureau Veritas Certification, based on the processes and procedures described in the Verification Report, declares that it has performed the 7th periodic verification of the Lages Methane Avoidance Project in Lages Cogeneration Facility, CDM Registration Reference Number 0268, located at Vivandério Santos do Vale Street, in Lages municipality, State of Santa Catarina, Brazil, and applying the methodology AMS-III.E, Version 07 - Avoidance of methane production from biomass decay through controlled combustion. The Project is under operation since 23 December 2003 by Lages Bioenergética Ltda., a Special Purpose Company fully owned by Tractebel Energia S.A., specially constituted to build, operate and maintain the Lages Project. The verification was performed based on the UNFCCC criteria and host country criteria and also on the criteria given to provide for consistent project operations, monitoring and reporting.

Bureau Veritas Certification can confirm that the GHG emission reductions are calculated without material misstatements. Our opinion relates to the projects' GHG emissions and resulting GHG emission reductions reported and related to the validated and registered project baseline, approved monitoring plan and its associated documents. Based on the evidence and information that are considered necessary to guarantee that GHG emission reductions are appropriately calculated, Bureau Veritas Certification confirms the following statement:

Reporting period:	01/01/2013 to 31/10/2014	
Baseline emissions:	734,433	t CO ₂ equivalents
Project emissions:	11,418	t CO ₂ equivalents
Leakage emissions:	2,745	t CO ₂ equivalents
Emission Reductions:	720,270	t CO ₂ equivalents



Mr. Bhaveshkumar K. Prajapati
Internal Technical Reviewer
30/09/2016



Mr. Antonio Daraya
Team Leader
30/09/2016

Abbreviations

Abbreviations	Full texts
ANP	Brazilian Petroleum Agency
CDM	Clean Development Mechanism
EB	Executive Board
IPCC	Intergovernmental Panel on Climate Change
MR	Monitoring Report
SSCPDD	Small Scale Project Design Document
UNFCCC	United Nations Framework Convention on Climate Change

Appendix 1. Competence of team members and technical reviewers

Mr. Antonio Daraya - Bureau Veritas Certification – Lead GHG Verifier

Antonio Daraya – is graduated in Chemical Engineering with a very large experience in Industrial and Environmental management in several industrial fields. He is ISO 9001:2000, ISO 14001:2004 and OHSAS 18001 Lead Auditor and has also experience in the implementation of Quality and Environmental Management Systems. Antonio is qualified as Lead Verifier GHG – Green House Gases.

Bhaveskumar K. Prajapati – Climate Change Lead Verifier, Internal Technical Reviewer (ITR)

He is graduate in the field of Chemical Engineering and post-graduate in Finance (MBA- Finance). He has more than 8 years of Industrial work experience in the field of environment audits, consultancy of HVAC (pharmaceutical industry as well as commercial air conditioning) and utility services and project management of various green field as well as gray field projects. He has undergone lead verifier's training on Clean Development Mechanism. He is involved in the Validation/ Verification projects of CDM and VCS.

He holds competence in Technical Area 1.1, 1.2 and 13.1 and was approved in the year 2012

Appendix 2. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	Tractebel Energia S.A.	MR-0268-16-01-version01	13/01/2016	Project Participants
2	Tractebel Energia S.A.	MR-0268-16-05-version02	20/05/2016	Project Participants
3	Tractebel Energia S.A.	Excel Spreadsheet 0268 ER Sheet 8 Feb 15 rev Dutra Torete rev.Nov2015	08/02/2015	Project Participants
4	Tractebel Energia S.A.	Excel Spreadsheet CER Jan to Dec 2013 Rev Dutra Torete rev.Nov2015	08/02/2015	Project Participants
5	Tractebel Energia S.A.	Excel Spreadsheet CER Jan to Oct 2014 Rev Dutra Torete rev.Nov2015	08/02/2015	Project Participants
6	Tractebel Energia S.A.	Calibration Certificates # 0988138, # 1499344-2 and # 1084857 – Toledo Truck Scale 820 J – Serial Number 3077001100.	23/08/2012 20/08/2013 08/07/2014	Project Participants
7	Tractebel Energia S.A.	Calibration Certificates # 0988137, # 1499343-0 and # 1084858 – Toledo Truck Scale 820 J - Serial Number # 3077001101.	23/08/2012 20/08/2013 08/07/2014	Project Participants
8	Tractebel Energia S.A.	Calibration Certificates # 0066377 and # 0066752 – Toledo Dynamic Scale - Serial Number # 3092000123.	08/11/2012 26/12/2013	Project Participants
9	Tractebel Energia S.A.	Excel Spreadsheet – Control of the daily consumption of Diesel Oil – Jan to Dec 2013 and Jan to Oct 2014.	08/02/2015	Project Participants
10	Tractebel Energia S.A.	Calibration Certificates # 835573-3 and # 1495970 – Diesel Feed Pump #540670.	20/04/2012 27/06/2013	Project Participants
11	Bureau Veritas Certification	CDM_General_Protocol_Verification_Rev09.1UCLAreV1	31/05/2016	DOE
12	Bureau Veritas Certification	Verification and Certification Report ver.02	30/09/2016	DOE
13	Tractebel Energia S.A.	0268_Lages SSCPDD_en_11 02 21 .pdf – Lages Methane Avoidance Project, version 03	21/02/2011	Project Participants
14	UNFCCC	Methodology. AMS-III.E. Version 7.0 – Avoidance of methane production from decay of biomass through controlled combustion.	28/11/2005	UNFCCC
15	UNFCCC	Methodological Tool – Emissions from Solid Waste Disposal Sites, version 07.0.	16/04/2015	UNFCCC
16	UNFCCC	Methodological Tool – Project and Leakage Emissions from Transportation of Freight, version 01.1.0.	23/11/2012	UNFCCC
17	IPCC	IPCC 2006, volumes 2 and 5.	2006	IPCC
18	UNFCCC	EB 69 Report, Annex 3, page 1 – GWP _{CH4} =25 – GWP _{N2O} =298.	09-12/09/2012	UNFCCC
19	Ministry of Mines and Energy-Brazil	ANP-Brazilian Petroleum Agency, Ordinance # 15.	17/07/2006	Min. Mines and Energy Brazil

Appendix 3. Clarification requests, corrective action requests and forward action requests

Table 1. Remaining FAR from validation and/or previous verification

FAR ID	N/A.	Section no.	E.2	Date: DD/MM/YYYY
Description of FAR				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
DOE assessment				Date: DD/MM/YYYY

Table 2. CL from this verification

CL ID	N/A.	Section no.		Date: DD/MM/YYYY
Description of CL				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
DOE assessment				Date: DD/MM/YYYY

Table 3. CAR from this verification

CAR ID	AVD 01	Section no.	B.2.1.1	Date: 05/05/2016
Description of CAR				
According to the information of Section B.1 of the Monitoring Report version 01, it was not informed in Section B.2.1 that temporary deviations from registered monitoring plan have been applied during this monitoring period.				
Project participant response				Date: 20/05/2016
The monitoring report (MR, version 1) was revised. It was included, in section B.2.1 of the monitoring report (version 2), the following answer: "There was temporary deviation in monitoring plan of the registered Project Design Document (version 2, dated of September, 2005). This deviation can be seen in section B.1 of this monitoring report and did not occur in relation to the accepted (approved) and revised PDD (version 3, dated of February, 2011: http://cdm.unfccc.int/Projects/DB/DNV-CUK1140180495.84/view)."				
Documentation provided by project participant				
N/A.				
DOE assessment				Date: 31/05/2016
The monitoring report was revised according to the request. CAR AVD 01 was closed. OK				

CAR ID	AVD 02	Section no.	B.2.1.1	Date: 05/05/2016
Description of CAR				
The corrections to project information or parameters fixed at validation have not been informed in Section B.2.2 of the Monitoring Report version 01.				
Project participant response				Date: 20/05/2016

<p>The monitoring report (MR, version 1) was revised. It was included in section B.2.2 of the monitoring report (version 2) the following answer:</p> <p>“According to UNFCCC (see the section D1, “Additional Comment” for CH₄_GWP and N₂O_GWP) and monitoring plan of PDD (both versions: version 3, dated of February 2011, approved and revised PDD and version 2 of September, 2005) the GWP of CH₄ and N₂O were corrected for their more current value, in Section D1 (Data and parameters fixed ex ante) of this Monitoring Report. Thus, the value of CH₄_GWP was changed from 21 to 25 and the value of N₂O_GWP from 310 to 298.</p> <p>The section D.1 of this MR, for methane correction factor (MCF), also presented correction in relation to PDD, version 2 of September, 2005 (which already has been corrected in version 3, approved and revised PDD, February 2011).</p> <p>As per section D1 of this monitoring report (and according to revised PDD dated of February of 2011), for “MCF” (methane correction factor), at “value (s) applied” of this section (D1), it was included “0” for “Spot Market”.</p> <p>Explanations about these corrections, can be seen in section D.1 of this MR, in “Choice of data or measurement methods and procedures” and “Additional comment” for the following “parameters fixed ex ante”: N₂O_GWP, CH₄_GWP and MCF.”</p>	
Documentation provided by project participant	
N/A.	
DOE assessment	Date: 31/05/2016
The monitoring report was revised according to the request. CAR AVD 02 was closed. OK	

CAR ID	AVD 03	Section no.	D.2.6	Date: 05/05/2016						
Description of CAR										
<p>The information given in the Monitoring Report version 01, referring to the dates of Calibration of the Toledo Dynamic Scale number 3092000123, doesn't cover all the period of the 7th Verification of the Project, that is, 01/01/2013 to 31/10/2014. The lacking period is from 01/01/2013 to 25/12/2013.</p>										
Project participant response				Date: 20/05/2016						
<p>The monitoring report (MR, version 1) was revised. According to the calibration certificate number 0066377 of the Toledo Dynamic Scale number 3092000123, the calibration data (in bold text below), which cover 01/01/2013 to 25/12/2013, were included in the monitoring report (version 2), in section D.2, in “Fuel – Amount of wood waste combusted” (ID 1). The calibration data of 09 Dec 2014 were excluded, because is out of monitoring period (7th Verification, 01/01/2013 to 31/10/2014).</p> <p>The table below presents the corrected table included in the monitoring report (version 2), which cover all monitoring period of the 7th Verification of the Project, that is, 01/01/2013 to 31/10/2014, which is including, therefore, the calibration from 01/01/2013 to 25/12/2013.</p> <table border="1" data-bbox="150 1272 1291 1400"> <tr> <th>Calibration Certificate Number</th> <th>Date</th> </tr> <tr> <td>0066752</td> <td>26 Dec 2013</td> </tr> <tr> <td>0066377</td> <td>08 Nov 2012</td> </tr> </table>					Calibration Certificate Number	Date	0066752	26 Dec 2013	0066377	08 Nov 2012
Calibration Certificate Number	Date									
0066752	26 Dec 2013									
0066377	08 Nov 2012									
Documentation provided by project participant										
Calibration Certificate number 0066377.										
DOE assessment				Date: 31/05/2016						
The calibration certificates of the two Toledo Dynamic Scales, which were presented during the site visit, cover all the monitoring period. CAR AVD 03 was closed. OK.										

CAR ID	AVD 04	Section no.	D.2.6	Date: 05/05/2016
Description of CAR				
<p>The information given in the Monitoring Report version 01, referring to the dates of Calibration of the Entrance Truck Scales Toledo mod 820-J, numbers 030770014100 and 030770014101 doesn't cover all the period of the 7th Verification of the Project, that is, 01/01/2013 to 31/10/2014. The lacking period is from 01/01/2013 to 19/08/2013.</p>				
Project participant response				Date: 20/05/2016

The monitoring report (MR, version 1) was revised. According to the calibration certificate number 0988138 of the Entrance Truck Scales (way in) Toledo mod 820-J, number 03077001100, the calibration data (in bold text below), which cover 01/01/2013 to 19/18/2013, were included in the monitoring report (version 2), in section D.2, in "Fuel – Amount of wood waste obtained from Battistella" (ID 2).

As per calibration certificate(), number 0988137 of the Entrance Truck Scales (way out) Toledo mod 820-J, number 03077001101, the calibration data (in bold text below), which cover 01/01/2013 to 19/18/2013 were also included in the monitoring report (version 2), in the same section (section D.2, in "Fuel – Amount of wood waste obtained from Battistella" - ID 2).

The same correction was made for "Off-site transportation – Truck capacity (ID 8).

The tables below present the corrected tables included in the monitoring report (version 2, in ID 2 and ID 8), which cover all monitoring period of the 7th Verification of the Project, that is, 01/01/2013 to 31/10/2014, which is including, therefore, the calibrations from 01/01/2013 to 19/08/2013.

Scale Type: electronic (way in)

Scale number 3077001100

Calibration Certificate Number	Certifier	Date
1084857	Toledo	08 Jul 2014
1499344-2	INMETRO	20 Aug 2013
0988138	Toledo	23 Aug 2012

Scale Type: electronic (way out)

Scale number 3077001101

Calibration Certificate Number	Certifier	Date
1084858	Toledo	08 Jul 2014
1499343-0	INMETRO	20 Aug 2013
0988137	Toledo	23 Aug 2012

Documentation provided by project participant

Calibration Certificates number 0988138 and 098137.

DOE assessment

Date: 31/05/2016

The calibration certificates of the Entrance Truck Scales Toledo, which were presented during the site visit, cover all the monitoring period. CAR AVD 04 was closed. OK.

CAR ID	AVD 05	Section no.	D.2.6	Date: 05/05/2016
Description of CAR				
The information given in the Monitoring Report version 01, referring to the date of Calibration of the Diesel Feed Pump 540670, at internal gas station, doesn't cover all the period of the 7 th Verification of the Project, that is, 01/01/2013 to 31/10/2014. The lacking period is from 01/01/2013 to 26/06/2013.				
Project participant response				Date: 20/05/2016
The monitoring report (MR, version 1) was revised. According to the calibration certificate number 540670 of the diesel feed pump, the calibration data (in bold text below), which cover 01/01/2013 to 26/06/2013 were included in the monitoring report (version 2) in section D.2, in "On-site transportation – Diesel oil purchase" (ID 6).				
The table below presents the corrected table included in the monitoring report (version 2), which cover all monitoring period of the 7th Verification of the Project, that is, 01/01/2013 to 31/10/2014, which is including, therefore, the calibration from 01/01/2013 to 26/06/2013.				
Pump Number	Calibration Certificate Number	Certifier	Date	
540670	1495970-7	INMETRO	27 Jun 2013	
540670	835573-3	INMETRO	20 Apr 2012	
Documentation provided by project participant				
Calibration Certificate number 835573-3.				
DOE assessment				Date: 31/05/2016
The calibration certificates of the diesel feed pump, which were presented during the site visit, cover all the monitoring period. CAR AVD 05 was closed. OK.				

Table 4. FAR from this verification

FAR ID	N/A	Section No.		Date: DD/MM/YYYY
Description of FAR				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
DOE assessment				Date: DD/MM/YYYY

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
01.0	23 March 2015	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Issuance Keywords: project activities, verifying and certifying		