



RINA

SOCIAL CARBON STANDARD VERIFICATION REPORT

Final

“Composting Project in Santa Catarina”
in
Brazil

Report N° 2015-BQ-33-MD

Revision N° 1.1 Aa



SOCIAL CARBON STANDARD VERIFICATION REPORT

Project Title: Composting Project in Santa Catarina	Country: Brazil	
Client: Sustainable Carbon – Projetos Ambientais Ltda.	Client contact: Marcelo Haddad	
Report No.: 2015-BQ-33-MD	Revision: 1.1 Aa	Date of this report: 26/11/2015
Approved by (Final Report – DCI Director approval):  Laura Severino		Date of approval: 26/11/2015
RINA Services S.p.A. (RINA), commissioned by Sustainable Carbon – Projetos Ambientais Ltda., has performed the verification of the SOCIALCARBON Report of the project activity “Composting Project in Santa Catarina” in Brazil, with regard to the relevant requirements of Social Carbon Standards. In conclusion, it is RINA’s opinion that the SOCIALCARBON Report for the project activity “Composting Project in Santa Catarina”, in “Brazil”, version 02 of 20/10/2015, meets all relevant requirements established by the SOCIALCARBON Standard, SOCIALCARBON Methodology and it contains the identification of social economic and environmental impacts as well the presentation of the results obtained in accordance to the Social Carbon Standard indicators for “Santa Catarina Composting Project Indicators”.		

Work carried out by: Rafael Kupper Bonizio Oliva Thaís de Lima Carvalho	☒ No distribution without permission from the Client or organizational unit responsible ☐ Strictly confidential ☐ Unrestricted distribution
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Work verified by (Final Report – CRT person responsible approval)  Rita Valoroso	Keywords: Social Carbon Standard, Verification, Indicators
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SOCIAL CARBON STANDARD VERIFICATION REPORT

Abbreviations

Explain any abbreviations that have been used in the report here.

CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER(s)	Certified Emission Reduction(s)
CL	Clarification Request
CRT	Coordination and Technical Control Staff
DCI	Certification Division of RINA Services Spa
DOE	Designated Operational Entity
EI	Ecologica Institute
EIA	Environmental Impact assessment
ER	Emission Reductions
GHG(s)	Greenhouse gas(es)
GWP	Global Warming Potential
IPCC	Intergovernmental Panel on Climate Change
MP	Monitoring Plan
MR	Monitoring Report
NGO	Non-Governmental Organization
NPO	Non-Profit Organization
ODA	Official Development Assistance
PDD	Project Design Document
PP(s)	Project Participant(s)
RINA	RINA Services Spa
SCM	Social Carbon Methodology
SCS	Social Carbon Standard
VCS	Voluntary Carbon Standard
VER(s)	Verified Emission Reduction(s)

SOCIAL CARBON STANDARD VERIFICATION REPORT

Table of Contents		Page
1	INTRODUCTION	5
1.	Objective	5
2.	Scope	5
2	METHODOLOGY	5
3.	Document Review	5
4.	Follow-up actions	10
5.	Resolution of outstanding issues	11
6.	Internal quality control	11
7.	Verification team and the technical reviewer(s)	11
3	VERIFICATION FINDINGS	11
3.1	Project design	11
3.2	Methodology used for reduction/capture of GHGs	12
3.3	SOCIALCARBON Indicators	13
4	VERIFICATION CONCLUSION	22

SOCIAL CARBON STANDARD VERIFICATION REPORT

1 INTRODUCTION

Sustainable Carbon – Projetos Ambientais Ltda has commissioned RINA to carry out the verification of the SCS Report for the project activity “Composting Project in Santa Catarina” project in Brazil.

This report summarizes the findings of the verification of the project, performed on the basis of Social Carbon Methodology, as well as criteria established by the SCS Indicators for “Santa Catarina Composting Project Indicators”, version 1.1 of 09/06/2011.

1.1 Objective

The objective of the verification is to have an independent evaluation of a specific project activity by a certifying entity against the requirements of the Social Carbon Standard and Social Carbon Standard indicators, on the basis of the SCS report. In particular, the social and environmental indicators are verified in order to confirm that the impacts arising from a carbon offset project for the six resources of the methodology (Social, Human, Financial, Natural, Biodiversity/Technology and Carbon), as documented, is sound and reasonable and meets the identified criteria. The verification of the SCS report is as a complementary standard for co-benefits and it does not set its own criteria regarding the project type, location, and size, crediting period or baseline and monitoring methodologies; it covers only criteria of social and environmental impact of the project but not for emission reduction itself.

1.2 Scope

The verification scope is to review the SCS Report against the SCS Methodology and SCS Indicators. Verification is not meant to provide any consultancy towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the project design.

2 METHODOLOGY

Verification was conducted using RINA procedures in line with the requirements specified in the latest version of the Social Carbon Standard, and applying standard auditing techniques.

The verification consisted of the following three phases:

- Document review;
- Follow-up actions;
- The resolution of outstanding issues and the issuance of the final verification report.

The following sections outline each step in more detail.

2.1 Document Review

The evidence obtained during the audit is to verify the accuracy of all information contained in the present project. The SCS Report, version 2 of 20/10/2015 and previous version 01 of 24/08/2015, in particular the applicability of the SCS methodology and the SCS indicators for “indicators used” were assessed as part of the verification.

The following table lists the documentation that was reviewed during the verification.

/01/	Sustainable Carbon – Projetos Ambientais Ltda: SCS Report for project activity “Composting Project in Santa Catarina” in Brazil, version 01 of 24/08/2015, version 2 of 20/10/2015.
/02/	Social Carbon Standard version 5.0 of July 2013
/03/	Social Carbon Standard: Guide for completing Social Carbon Reports – version 4.0 of September 2013
/04/	TUV Rheinland: Validation Report of Composting Project in Santa Catarina, version 02.0 of 06/02/2014
/05/	Sustainable Carbon – Projetos Ambientais Ltda: VCS PD Composting Project in Santa

SOCIAL CARBON STANDARD VERIFICATION REPORT

	Catarina, version 06.1 of 10/01/2014
/06/	Sustainable Carbon – Projetos Ambientais Ltda: VCS MR Composting Project in Santa Catarina, version 01.0 of 21/08/2015, version 2 of 16/10/2015.
/07/	Social Carbon Standard: Santa Catarina Composting Project Indicators”, version 1.1 of 09/06/2011.
/08/	CDM Executive Board: Approved consolidated baseline and monitoring methodologies: - AMS-III.F. - “Avoidance of methane emissions through composting”, version 10, dated 04/03/2011 - AMS-III.D. – “Methane recovery in animal manure management systems”, version 18, dated 13/10/2011
/09/	VCS project page available at < http://www.vcsprojectdatabase.org/#/project_details/1144 > accessed on 14/09/2015
/10/	Designated Operational Entity TÜV Rheinland (China) Ltd (verification report N° 01 997 9105076523 issued on 24/06/2014)
/11/	Documents of swine production provided by integrators: 1. Alterno José Basso: • SEARA - Swine production statement – issued on 28/05/2013 • SEARA - Swine production statement – issued on 30/10/2013 • SEARA - Swine production statement – issued on 31/03/2014 • SEARA - Swine production statement – issued on 25/08/2014 • SEARA - Swine production statement – issued on 23/01/2015 2. Antonio Carlos Ramella: • Coperaguas Cooperativa Agroindustrial - Swine production statement – issued on 13/07/2013. • CIDASC - Swine production statement – issued on October/2014 • CIDASC - Swine production statement – issued on March/2015 • CIDASC - Swine production statement – issued on July/2015 • CIDASC - Swine production statement – issued on 15/09//2015 3. Clodoaldo Secco: • BRF – Brasil Foods S.A. - Swine production statement – issued on 15/04//2013 • BRF – Brasil Foods S.A. - Swine production statement – issued on 23/08/2013 • BRF – Brasil Foods S.A. - Swine production statement – issued on 08/01//2014 • BRF – Brasil Foods S.A. - Swine production statement – issued on 17/06//2014 • BRF – Brasil Foods S.A. - Swine production statement – issued on 27/10//2014 • BRF – Brasil Foods S.A. - Swine production statement – issued on 10/03//2015 4. Dario Zuffo: • COOPERVIL - Swine production statement – issued on 08/05/2013 • COOPERVIL - Swine production statement – issued on 19/09/2013 • COOPERVIL - Swine production statement – issued on 28/01/2014 • COOPERVIL - Swine production statement – issued on 03/07/2014 • COOPERVIL - Swine production statement – issued on 05/11/2014 • COOPERVIL - Swine production statement – issued on 13/03/2015 • COOPERVIL - Swine production statement – issued on 14/08/2014 5. Diacir Coradi

SOCIAL CARBON STANDARD VERIFICATION REPORT

	• Suicooper Aurora - Swine production statement – issued on 04/04/2013 • Suicooper Aurora - Swine production statement – issued on 15/07/2013 • Suicooper Aurora - Swine production statement – issued on 21/08/2013 • Suicooper Aurora - Swine production statement – issued on 10/12/2013 • Suicooper Aurora - Swine production statement – issued on 17/01/2014 • Suicooper Aurora - Swine production statement – issued on April/2015 • Suicooper Aurora - Swine production statement – issued on December/2014 • Suicooper Aurora - Swine production statement – issued on July/2015
	6. Gilmar Piovesan: • BRF – Brasil Foods S.A. - Swine production statement – issued on 09/05//2013 • BRF – Brasil Foods S.A. - Swine production statement – issued on 23/09/2013 • BRF – Brasil Foods S.A. - Swine production statement – issued on 12/02//2014 • BRF – Brasil Foods S.A. - Swine production statement – issued on 23/06//2014 • BRF – Brasil Foods S.A. - Swine production statement – issued on 31/10//2014 • BRF – Brasil Foods S.A. - Swine production statement – issued on 21/03//2015 • BRF – Brasil Foods S.A. - Swine production statement – issued on 24/07//2015
	7. Gilmar José Sinigaglia • BRF – Brasil Foods S.A. - Swine production statement – issued on 07/02/2013 • BRF – Brasil Foods S.A. - Swine production statement – issued on 26/06/2013 • BRF – Brasil Foods S.A. - Swine production statement – issued on 04/11/2013 • BRF – Brasil Foods S.A. - Swine production statement – issued on 11/03//2014 • BRF – Brasil Foods S.A. - Swine production statement – issued on 14/08//2014 • BRF – Brasil Foods S.A. - Swine production statement – issued on 20/01//2015 • BRF – Brasil Foods S.A. - Swine production statement – issued on 21/05//2015
	8. Jair da Silva • COOP PROD CONS CDIA – Swine production statement – issued on 13/08/2015
	9. Nóbile Tomazzi • SEARA - Swine production statement – issued on 17/01/2013 • SEARA - Swine production statement – issued on 15/07/2013 • SEARA - Swine production statement – issued on 14/01/2014 • SEARA - Swine production statement – issued on 14/07/2014 • SEARA - Swine production statement – issued on 27/01/2015 • SEARA - Swine production statement – issued on 07/08/2015
	10. Renato Baccin • SEARA - Swine production statement – issued on 17/10/2012 • SEARA - Swine production statement – issued on 05/04/2013 • SEARA - Swine production statement – issued on 09/10/2013 • SEARA - Swine production statement – issued on 12/12/2013 • SEARA - Swine production statement – issued on 31/01/2014 • SEARA - Swine production statement – issued on 31/07/2014 • SEARA - Swine production statement – issued on 06/02/2015 • SEARA - Swine production statement – issued on 30/07/2015
	11. Selvino Andretta • Perdigao Agroindustrial S.A. – Swinw production statement – issued on 03/09/2015

SOCIAL CARBON STANDARD VERIFICATION REPORT

/12/	Project sites internal control of swine production. 12. Alterno José Basso: • Pump drive control – from 01/01/2013 to 30/06 /2013 • Temperature and humidity control of the composting –from 01/02/2013 to 12/12/2014 13. Antonio Carlos Ramella: • Pump drive control – from 01/01/2013 to 30/06 /2013 • Temperature and humidity control of the composting –from 01/02/2013 to 12/12/2014 14. Clodoaldo Secco: • Pump drive control – from 01/01/2013 to 30/06 /2013 • Temperature and humidity control of the composting –from 01/02/2013 to 12/12/2014 15. Dario Zuffo: • Pump drive control – from 01/01/2013 to 30/06 /2013 • Temperature and humidity control of the composting –from 01/02/2013 to 12/12/2014 16. Diacir Coradi • Pump drive control – from 01/01/2013 to 30/06 /2013 • Temperature and humidity control of the composting –from 01/02/2013 to 12/12/2014 17. Gilmar Piovesan: • Pump drive control – from 01/01/2013 to 30/06 /2013 • Temperature and humidity control of the composting –from 01/02/2013 to 12/12/2014 18. Gilmar José Sinigaglia • Pump drive control – from 01/01/2013 to 30/06 /2013 • Temperature and humidity control of the composting –from 01/02/2013 to 12/12/2014 19. Jair da Silva • Pump drive control – from 01/01/2013 to 30/06 /2013 • Temperature and humidity control of the composting –from 01/02/2013 to 12/12/2014 20. Nóbile Tomazzi • Pump drive control – from 01/01/2013 to 30/06 /2013 • Temperature and humidity control of the composting –from 01/02/2013 to 12/12/2014 21. Renato Baccin • Pump drive control – from 01/01/2013 to 30/06 /2013 • Temperature and humidity control of the composting –from 01/02/2013 to 12/12/2014 22. Selvino Andretta • Pump drive control – from 01/01/2013 to 30/06 /2013 • Temperature and humidity control of the composting –from 01/02/2013 to 12/12/2014
/13/	Environmental Foundation (FATMA) Operating licenses: 1. Altenor José Basso n.º 11259/2013 –Valid until 13/12/2017 2. Antoni Carlos Ramella n.º 5455/2014 – Valid until 13/08/2018 3. Clodoaldo Antônio Secco n.º 8123/2014 – Valid until 10/11/2018 4. Dario Marcos Zuffo n.º 7974/2014 – Valid until 2018 5. Leocimar e Diacir Coradi n.º 4790/2011 – Valid until 04/09/2015 6. Gilmar Piovesan n.º 4122/2011 – Valid until 21/01/2015 7. Gilmar José Sinigaglia n.º 4905/2015 – Valid until 2019 8. Jair da Silva n.º 4411/2011 – Valid until 28/07/2015 9. Nóbile Tomazzi n.º 581/2015 – Valid until 12/02/2019

SOCIAL CARBON STANDARD VERIFICATION REPORT

	10. Renato Baccin n.º 8121/2012 – Valid until 02/09/2016 11. Selvino Luiz Andreta n.º 6792/2011 – Valid until 26/09/2015
/14/	LPC Report- Judgment about the expected time of operation of the manure pump and the UMAC equipment.
/15/	Sustainable Carbon – Projetos Ambientais Ltda: Emission Reduction spreadsheets of Version 2 of 16/10/2015 - VCS MR Calculations Altenor Farm_period 02_01 01 2013_30 06 2015_v2.xls - VCS MR Calculations Andretta Farm_period 02_01 01 2013_30 06 2015_v2.xls -VCS MR Calculations Baccin Farm_period 02_01 01 2013_30 06 2015_v2.xls - VCS MR Calculations Colonia Suspiro_period 02_01 01 2013_30 06 2015_v2.xls -VCS MR Calculations Colonia Zuffo_period 02_01 01 2013_30 06 2015_v2.xls -VCS MR Calculations Gilmar Farm_period 02_01 01 2013_30 06 2015_v2.xls - VCS MR Calculations Granja Silva Farm_period 02_01 01 2013_30 06 2015_v2.xls -VCS MR Calculations Helena Farm_period 02_01 01 2013_30 06 2015_v2.xls -VCS MR Calculations Ramella Farm_period 02_01 01 2013_30 06 2015_v2.xls -VCS MR Calculations Sitio Santa Lucia_period 02_01 01 2013_30 06 2015_v2.xls -VCS MR Calculations Suruvy Farm_period 02_01 01 2013_30 06 2015_v2.xls Version 1 of 21/08/2015 titled: - VCS MR Calculations Altenor Farm_period 02_01 01 2013_30 06 2015_v1 - VCS MR Calculations Baccin Farm_period 02_01 01 2013_30 06 2015_v1 - VCS MR Calculations Colonia Suspiro_period 02_01 01 2013_30 06 2015_v1 - VCS MR Calculations Colonia Zuffo_period 02_01 01 2013_30 06 2015_v1 - VCS MR Calculations Granja Silva Farm_period 02_01 01 2013_30 06 2015_v1 - VCS MR Calculations Helena Farm_period 02_01 01 2013_30 06 2015_v1 - VCS MR Calculations Ramella Farm_period 02_01 01 2013_30 06 2015_v1 - VCS MR Calculations Sitio Santa Lucia_period 02_01 01 2013_30 06 2015_v1 - VCS MR Calculations Suruvy Farm_period 02_01 01 2013_30 06 2015_v1
/16/	Sustainable Carbon – Projetos Ambientais Ltda: “SC_Composting Project in Santa Catarina_Point1_v02.xls” version 2 of 20/10/2015 SC_Composting Project in Santa Catarina_Point1_v01.1.xls, version 01 of 24/08/2015.
/17/	CDM Executive Board “Tool to calculate baseline, project and/or leakage emissions from electricity consumption”, version 01 of 16/05/2008
/18/	Association and Cooperatives evidences from swine farms.
/19/	Markit Environmental Registry – Financial Information Services, dated from 16/10/2015. Commercialization of the carbon credits of the past periods.

SOCIAL CARBON STANDARD VERIFICATION REPORT

2.2 Follow-up actions

On 01-03/09/2015, RINA visited the project locations in Santa Catarina, Brazil, to perform interviews with the key informants aiming at the obtainment of the information about the six resources of the SCS methodology and with the relevant stakeholders in the host country. Documentation and legal conformity are checked and interviews are made with the proponent and employees responsible for important activities in the company.

The key personnel interviewed and the main topics of the interviews are summarized in the table below.

	Date	Name and Role	Organization	Topic
/a/	01/09/2015	Mr. Antônio Carlos Ramela Mr. Gilmar Matana	Fazenda Ramela	Data for the social carbon and VCS report
/b/	01/09/2015	Mr. Belmirro Secco Mr. Pedro Cardoso	Sítio Santa Lúcia	Data for the social carbon and VCS report
/c/	01/09/2015	Mr. Jair da Silva	Fazenda Granja Silva	Data for the social carbon and VCS report
/d/	01-03/09/2015	Mr. Marcel Haddad - Sustainability coordinator	Sustainable Carbon	Social carbon and VCS report development
/e/	02/09/2015	Mr. Dario Zuffo	Fazenda Colônia Zuffo	Data for the social carbon and VCS report
/f/	02/09/2015	Mr. Nóbile Tomazi Ms. Lenice Tomazi	Fazenda Colônia Suspiro	Data for the social carbon and VCS report
/g/	02/09/2015	Mr. Altenor Basso	Fazenda Altenor	Data for the social carbon and VCS report
/h/	02/09/2015	Mr. Diacir Coradi	Fazenda Helena	Data for the social carbon and VCS report
/i/	03/09/2015	Mr. Renato Baccin	Fazenda Baccin	Data for the social carbon and VCS report
/j/	03/09/2015	Mr. Airton Piovezan	Fazenda Suruvy	Data for the social carbon and VCS report
/k/	03/09/2015	Mr. Selvino Andretta	Fazenda Andretta	Data for the social carbon and VCS report

SOCIAL CARBON STANDARD VERIFICATION REPORT

2.3 Resolution of outstanding issues

The objective of this phase of the verification is to resolve any outstanding issues which need to be clarified for RINA's positive conclusion on the project design.

To guarantee transparency a verification protocol has been customized for the project. The protocol shows in a transparent manner the requirements, means of verification and the results from verifying the identified criteria. The completed verification protocol is enclosed in Appendix A to this report.

A corrective action request (CAR) is raised if one of the following occurs:

- The project participants have made mistakes that will influence the ability of the project activity to achieve real, measurable additional emission reductions.
- The SCS requirements have not been met.
- There is a risk that the sustainable indicators cannot be monitored.

A clarification request (CL) is raised if information is insufficient or not clear enough to determine whether the applicable SCS requirements have been met.

CARs and CLs identified are included in Appendix A of this report.

2.4 Internal quality control

All the revisions of the verification report before being submitted to the client were subjected to an independent internal technical review to confirm that all verification activities had been completed according to the pertinent RINA instructions.

The technical review was performed by a technical reviewer(s) qualified in accordance with RINA's qualification scheme for SCS validation and verification.

2.5 Verification team and the technical reviewer(s)

The verification team and the technical reviewers consist of the following personnel:

Role	Last Name	First Name	Country
Team Leader SCS/ Technical Expert SCS	Carvalho	Thaís	Brazil
SCS Verifier/ Technical Expert SCS	Kupper Oliva	Bonizio Rafael	Brazil
Technical Reviewer	Valoroso	Rita	Italy

3 VERIFICATION FINDINGS

The findings of the verification related to the project, as described in the SCS Report version 2 of 20/10/2015 and previous version 01 of 24/08/2015, are stated in the following sections.

3.1 Project design

Basic information	
Project name	Composting Project in Santa Catarina
Location	Santa Catarina/Brazil
Indicators	Santa Catarina Composting Project Indicators", version 1.1 of 09/06/2011.
Year-Point of the project	One
Project Developer	Sustainable Carbon – Projetos Ambientais Ltda
Researcher	Iago Paniza

SOCIAL CARBON STANDARD VERIFICATION REPORT

	Dênis Gonçalves Marcelo Haddad
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The project was registered under the VCS on 06/02/2014 /04/, project number 1144 /05/ and the current social carbon verification corresponds to the VCS monitoring period from 01/01/2013 to 30/06/2015 /06/.

Sustainable Carbon - Projetos Ambientais Ltda. is developing a sustainability program along with 11 swine confinement farms in Brazil, once two swine farmers, Adelmo Pickler and Neimar Pissaia, are not included in this current monitoring period due to personal reasons.

Aiming to improve animal manure management systems, reduce greenhouse gases (GHG) emissions associated to swine waste management, and improving the livelihood of families in farms, the present project activity therefore contributes to sustainable development.

Each farm started the full operation of the automated composting unit in a specific date, i.e., when the composting unit was installed and farm owners received training for its operation; or when the first batch of animals was received following installation. However, the project start date was defined as the date when the first farm included in this project began reducing GHG emissions by applying the composting unit, which was Fazenda Altenor on 21/05/2010.

By replacing the baseline system, the present project activity reduces methane emissions from anaerobic decay through composting, which is a controlled aerobic treatment. Therefore, the Composting Project in Santa Catarina resulted in a GHG emission reduction of 18,165 tonnes of CO₂e during the current monitoring period from 01/01/2013 to 30/06/2015. In addition, this new AWMS technology carries out a manure treatment under a more controlled and economically sustainable manner.

As part of this project, animal waste is treated in a mechanized composting unit, where the liquid wastes are incorporated with dry solid substrate to be submitted to the mechanical stirring process. This process mixes the liquid and solid parts, maintaining appropriate levels of oxygen, moisture content, and temperature to ensure that organic matter degradation occurs under aerobic conditions. The final compost obtained is used to fertilize cultivated soil within each farm, or sold to local consumers.

3.2 Methodology used for reduction/capture of GHGs

The present project activity applies small scale methodologies approved under the Clean Development Mechanism, as follows:

- Category AMS-III.F. - "Avoidance of methane emissions through composting", version 10, dated 04/03/2011.

Calculations of baseline emissions were determined using relevant sections of:

- Category AMS-III.D. – "Methane recovery in animal manure management systems", version 18, dated 13/10/2011.

Furthermore, procedures for the calculation of project emission from electricity consumption were determined according to:

"Tool to calculate baseline, project and/or leakage emissions from electricity consumption", version 01, dated 16/05/2008 /17/.

It is estimated that the project will reduce **126,421** tons equivalent of CO₂ in a period of ten years. The total tons of carbon equivalent reduced of the second monitoring period (01/01/2013 to 30/06/2015) are pending the verification conclusion of VCS verification report.

SOCIAL CARBON STANDARD VERIFICATION REPORT

3.3 SOCIALCARBON Indicators

3.3.1 SOCIALCARBON Method

PP applies the Santa Catarina Composting Project Indicators", version 1.1 of 09/06/2011 /07/.

3.3.2 Social, economic and environmental impacts of the GHG emission reductions project.

Activity	Aspect	Impact	Impacts Classification		Comments/ Observations
			Positive	Negative	
Aerobic decomposition during composting	Reduction of GHG emissions and Hydrogen Sulfide	- Changes in air quality - Reduction of smell due to decomposition	X		Carbon Resource: - Project Performance Technology Resource: - Maintenance of Composting site
Aerobic decomposition during composting	Reduction of Liquid Waste	- Reduction of smells - Reduction of diseases agents - Reduction of soil pollution - Reduction of water pollution - Possibility of increasing animal production - Benefits for stakeholders	X		Technology Resource: - Maintenance of Composting site - Compost Quality Natural Resource: - Physical and chemical analysis of the compost Human Resource: - Diseases Agents Financial Resource: - Number of animals
Aerobic decomposition during composting	Production of minerals and water	Generation of compost	X		Financial Resource: - Generation and commercialization of compost
Carbon Credits	Commercialization	- Income generation for	X		Financial Resource:

SOCIAL CARBON STANDARD VERIFICATION REPORT

Project	on of the credits	families involved in the project			- Commercialization of carbon credits
Aerobic decomposition during composting	Technology changes for treating swine wastes	- Less leaching and percolation into water bodies - Diffusion of technology - Reduction of Health Risks for humans and animals	X		Human Resource: - Control of microorganism Natural Resource: - Physical and chemical analysis of the compost Technology Resource: - Compost Quality - Technology Diffusion
Aerobic decomposition during composting	Addition of value to the final product	- Income generation for families involved in the project	X		Financial Resource: - Generation and commercialization of the compost - Income generation due to carbon credits Social Resource: - Satisfaction of small farmers - Economic dependency
Installation of a mechanized composting system	Costs of the installation and substratum	- Demand of financial investments		X	Financial Resource: - Credit
Composting project	Third part validation and verification	- Rigidity during evaluation of Brazilian legislation	X		Carbon Resource: - Validation/ Verification Natural Resource: - Environmental Legislation
Composting project	Empowerment	- Increase of autonomy for swine units(farms)	X		Social Resource: - Association/ Cooperative - Economic Dependency
Composting project	Application of Social Carbon Methodology	- Incitement to better practices - Stakeholders consultation	X		Human Resource: - Health and Safety Practices Natural Resource: - Environmental Management Carbon Resource: - Technological diffusion - Stakeholders consultation

SOCIAL CARBON STANDARD VERIFICATION REPORT

3.3.3 Project indicators

3.3.3.1 Social Resources

Name of indicator	Association and Cooperatives
Description of Indicator	Evaluates if the swine farmer is involved in sector associations or cooperatives.
Assessment on current situation of the project	The eleven swine farmers showed involvement with local associations and cooperatives, however only three swine producers have active participation. It was possible to observe that all swine farmers believe that associations and cooperatives generate some benefit to the farm, however in a sporadic frequency.
Score obtained	4.18
Perspectives	There are currently no foreseen improvements.
Conclusion	RINA interviewed the swine farmers and it was possible to verify that they are involved in associations or cooperatives, though their participation are not active. RINA verified that the swine farms owners participates in associations and cooperatives, in accordance with evidences presented /18/. The accuracy of information and the score applied seems to be adequate.

Name of indicator	Economic Dependency:
Description of Indicator	Evaluates financial dependency of the swine farmer regarding his production, as well as the income generated by new activities introduced due to the compost production.
Assessment on current situation of the project	Among the eleven swine farmers, eight do not have profit with the swine activity. However, all of them practice subsistence and other activities that generate income.
Score obtained	4.00
Perspectives	There are currently no foreseen improvements.
Conclusion	RINA verified during the site visit and through interviews that the swine farmers relies on swine production, which is not generating profit and carries on subsistence activities and depend on another economic activity. The accuracy of information and the score applied seems to be adequate.

Name of indicator	Farmer Satisfaction
Description of Indicator	Evaluates the satisfaction of the farmer regarding the GHG emissions reduction project.
Assessment on current situation of the project	The swine farmers are indifferent to the composting and/or the carbon Project.
Score obtained	3.91
Perspectives	There are currently no foreseen improvements.
Conclusion	RINA verified during the site visit and through interviews and questionnaires applied that the swine farmers are indifferent to the composting and/or the carbon Project. The accuracy of information and the score applied seems to be adequate

SOCIAL CARBON STANDARD VERIFICATION REPORT

3.3.3.2 Human Resources

Name of indicator	Control of microorganisms:
Description of Indicator	Evaluates biological characteristics of the compost regarding risks for human, animal and environmental health. The parameters evaluated are the presence and amount of the following: total amount of coliforms (bacteria that indicates contamination of the compost- CT), faeces coliform (bacteria commonly found in faeces-CF), faeces streptococcus (EF) and Salmonella (EMBRAPA, 2007; EMBRAPA, 2008).
Assessment on current situation of the project	Five from the eleven swine farms did biological analysis of the characteristics of the compost generated. However, none of them do it periodically. Furthermore, those who do have the biological analysis do it sporadically.
Score obtained	1.27
Perspectives	There are currently no foreseen improvements.
Conclusion	RINA verified during the site visit and through interviews that there is no concern in undertaking biologic analysis of the compost. The accuracy of information and the score applied seems to be adequate.

Name of indicator	Diseases Agents:
Description of Indicator	Evaluate actions undertaken in order to control diseases within the swine farm boundaries.
Assessment on current situation of the project	All swine farms presented some control of diseases agents. Among the possible actions to control such diseases, the chemical one was the most used among the producers.
Score obtained	4.00
Perspectives	There are currently no foreseen improvements.
Conclusion	RINA verified during the site visit inspections that the control of diseases agents includes one of the following actions: mechanical, chemical or biologic. The accuracy of information and the score applied seems to be adequate.

Name of indicator	Health and Safety Practices:
Description of Indicator	Evaluates health and safety practices adopted in the swine farm.
Assessment on current situation of the project	All producers carried out actions to promote hygiene in the swine farm (since most of them follow requirements from integrators). However, in relation to safety practices, most safety equipment are available, though they are used inadequately (i.e. there are no control of use and withdraw).
Score obtained	3.00
Perspectives	There are currently no foreseen improvements.
Conclusion	During the site visit and through interviews it was possible to verify that safety equipment are not available OR there are no hygiene and health practices regarding the swine unit. The accuracy of information and the score applied seems to be adequate

SOCIAL CARBON STANDARD VERIFICATION REPORT

3.3.3.3 Financial Resources

Name of indicator	Number of animals
Description of Indicator	Evaluates the control of the swine unit regarding amount of animals and if this amount is increasing or decreasing during the Project cycle.
Assessment on current situation of the project	Just one of the swine farm had an increase in the number of animals due to the project. Three project developers had a decrease in the swine number because the project obligates the producers to comply with limits established by the operational license.
Score obtained	3.91
Perspectives	Producers have expectation that the correct swine waste management will make possible the increasing in the number of pigs allowed by the operational license.
Conclusion	RINA verified that the number of animals are in accordance with Operational License /13/. The accuracy of information and the score applied seems to be adequate.

Name of indicator	Generation and commercialization of the compost:
Description of Indicator	Evaluates the amount of compost generated as well as its commercialization by the farmer
Assessment on current situation of the project	Among the eleven swine farms, only two did not generate compost yet. From those who produce, the average commercialization rate in the market was about 50% of the total compost produced. All producers affirm that there is demand for the compost; however the price is very low, so they prefer to use it in their farms.
Score obtained	4.09
Perspectives	There are currently no foreseen improvements.
Conclusion	RINA verified during the site visit and through interviews that in the major swine farmers the compost was generated but it was used to supply internal demand. The accuracy of information and the score applied seems to be adequate

Name of indicator	Commercialization of carbon credits
Description of Indicator	Evaluates the context of the carbon credits commercialization during the period analyzed by the report.
Assessment on current situation of the project	All carbon credits generated during the first monitoring period were sold. In addition, all future credits that will be generated during the second monitoring period (which the present SOCIALCARBON report – Point 01 corresponds to) are already in an advanced process of negotiation.
Score obtained	6.00
Perspectives	There are currently no foreseen improvements.
Conclusion	RINA verified through Markit Environmental Registry /19/ the commercialization of the carbon credits of the past periods. The accuracy of information and the score applied seems to be adequate

SOCIAL CARBON STANDARD VERIFICATION REPORT

3.3.3.4 Natural Resources

Name of indicator	Environmental Management:
Description of Indicator	Evaluates procedures for environmental management adopted by the swine farmer, including the organization and coordination of actions and documents regarding the swine activities: nutrition, water use, installations, energy and use of the waste for other activities.
Assessment on current situation of the project	None of the swine farms have an environmental management system. The majority of producers have just two or three procedures regarding environmental management. The main activities carried out by farmers are related to feed and energy, water control and correct waste disposal. Nevertheless, such activities are only implemented by producers as required by integrators.
Score obtained	2.27
Perspectives	There are currently no foreseen improvements.
Conclusion	During the site visit and through interviews it was possible to verify that less than 50% of the environmental aspects of the swine farm are considered through the implementation of some actions, but with no documentation The accuracy of information and the score applied seems to be adequate.

Name of indicator	Environmental Legislation
Description of Indicator	Evaluates if the swine farm is in accordance with Brazilian environmental standards and legislation (Ex: Operational License, Forestry Legislation Requirements, etc)
Assessment on current situation of the project	All swine farms have operational license, however they face difficulties to accomplish the constraints.
Score obtained	4.00
Perspectives	There are currently no foreseen improvements.
Conclusion	During the site visit and through interviews RINA verified that the entrepreneur faces difficulties to accomplish the demands of the operational license /13/. The accuracy of information and the score applied seems to be adequate.

Name of indicator	Chemical and Physical Analysis of the Compost:
Description of Indicator	Evaluates if, during the period analyzed, chemical and physical analysis of the compost were undertaken.
Assessment on current situation of the project	Among all swine farms, six did physical and chemical analysis of the compost; however the technical report is not available yet. In addition, most of those analyses are carried out sporadically by farmers.
Score obtained	1.91
Perspectives	There are currently no foreseen improvements.
Conclusion	During the site visit and through interviews it was possible to verify that there is no concern in regard with chemical and physical analysis of the compost. The accuracy of information and the score applied seems to be adequate.

SOCIAL CARBON STANDARD VERIFICATION REPORT

3.3.3.5 Technology Resources

Name of indicator	Compost quality
Description of Indicator	Evaluates the level of dry matter, the concentration of nutrients (C, N, P2O5, K2O, Ca e Mg), and the presence of heavy metal; and if these parameters are adequate for maintenance of soil, water and vegetation quality.
Assessment on current situation of the project	Among all the eleven swine producers, just one evaluated the compost quality. However, results showed that the compost was not in accordance with the specifications. Nine producers tested the compost generated in their own crops and stated that the result was positive. The remaining swine producers did not assess the compost quality.
Score obtained	2.00
Perspectives	There are currently no foreseen improvements.
Conclusion	RINA verified during the site visit and through interviews that the quality of the compost was tested in crops and it was positive. The accuracy of information and the score applied seems to be adequate

Name of indicator	Maintenance of the composting site
Description of Indicator	Evaluates if the maintenance of the composting site (Mechanic and Automatic Composting Unit) is carried out periodically, even by the swine farmer or by an independent Company
Assessment on current situation of the project	Most producers stated that they have no difficulties in carrying out the maintenance of the composting site. Occasionally the maintenance is also carried out by a specialized company. However, the financial cost of the maintenance is very high, which was highlighted by the farmers. The remaining producers stated that they have some difficulties in carrying out the maintenance of the composting site because it requires a lot of control.
Score obtained	3.91
Perspectives	There are currently no foreseen improvements.
Conclusion	RINA verified during the site visit and through interviews that the swine farmer carries on practices towards maintenance of the composting site, with no difficulties. The accuracy of information and the score applied seems to be adequate.

Name of indicator	Technology Diffusion
Description of Indicator	Evaluates the contribution of the project for technology diffusion, which comprises knowledge diffusion and implementation of new Technologies.
Assessment on current situation of the project	The majority of the swine producers have just informally explained the composting technology to neighborhoods and friends. Just one farmer has a folder containing brief information about the project and the use of the compost, which is distributed when the compost is sold.
Score obtained	2.91
Perspectives	There are currently no foreseen improvements.
Conclusion	During the site visit and through interviews and questionnaire applied it was possible to verify that the swine farmer would commit to support technology diffusion, though he is not aware which procedures should be undertaken. The accuracy of information and the score applied seems to be adequate.

SOCIAL CARBON STANDARD VERIFICATION REPORT

3.3.3.6 Carbon Resources

Name of indicator	Project Performance
Description of Indicator	Evaluates the Project performance analyzed by the corresponding Monitoring Report in comparison with the emission reductions estimated by the PD.
Assessment on current situation of the project	Comparing the estimates from VCS PD and the 2nd Monitoring period, it is possible to affirm that the performance of the project was great, as the emission reductions achieved during the current monitoring period were around 85% from those estimated in the VCS PD.
Score obtained	5.00
Perspectives	There are currently no foreseen improvements.
Conclusion	It was verified through the VCS MR /06/ in comparison with the VCS PD /05/. The accuracy of information and the score applied seems to be adequate

Name of indicator	Stakeholders Consultation
Description of Indicator	Evaluates if stakeholders were informed and consulted regarding Project activity and its impacts, during the period analyzed.
Assessment on current situation of the project	None of the producers carried out any kind of formal stakeholder consultation. As all farms included in the project are mostly composed of small families, informal conversations are the most common way of informing about the project activity. However, stakeholders did not have access to send comments and suggestions for project developers.
Score obtained	1.82
Perspectives	There are currently no foreseen improvements.
Conclusion	During the site visit and through interviews it was possible to verify that Stakeholders were informally communicated, though they did not have access to send comments and suggestions for the project developers. The accuracy of information and the score applied seems to be adequate

Name of indicator	Validation and Verification
Description of Indicator	Evaluates if the Project was partially or totally validated/verified by a third part and if the third part is accredited by the UNFCCC, as well as if the national and international Standards are being
Assessment on current situation of the project	The Composting Project in Santa Catarina was validated and verified by a third part accredited by the UNFCCC. Currently, this project is under verification by another third part accredited by the UNFCCC.
Score obtained	6.00
Perspectives	Assessment on the potential action, suggestions, expectation of the stakeholders
Conclusion	The accuracy of information and the score applied seems to be adequate.

SOCIAL CARBON STANDARD VERIFICATION REPORT

3.3.4 Sustainability performance of the project

The results of the project performance the verification conclusion will be provided in the final verification report.

Resource	Critical	Satisfactory	Sustainable	Average Score	General Performance
Social	0.0%	100.0%	0.0%	4.03	Satisfactory
Human	33.3%	66.7%	0.0%	2.76	Critical
Financial	0.0%	66.7%	33.3%	4.67	Satisfactory
Natural	66.7%	33.3%	0.0%	2.73	Critical
Technological	33.3%	33.3%	33.3%	2.94	Critical
Carbon	33.3%	33.3%	33.3%	4.27	Satisfactory
Overall Assessment	28%	56%	17%	3.57	Satisfactory

Critical: % of all the indicators that obtained scores 1 or 2

Satisfactory: % of all the indicators that obtained scores of 3 or 4

Sustainable: % of all the indicators that obtained scores of 5 or 6

Average Score: arithmetical average of the scores obtained for the resource

General performance: classification (critical, satisfactory, sustainable) of the average score obtained

Overall assessment: values obtained taking into account the performance of all the indicators of the six resources.

The different indicators are used for evaluating the performance of the project as follows: three indicators are used for evaluating the social resource and the performance is considered as satisfactory; three indicators are used for evaluating the human resource and the performance is considered as critical; three indicators are used for evaluating the financial resource and the performance is considered as satisfactory; three indicators are used for evaluating the natural resource and the performance considered as critical; three indicators are used for evaluating the technological resource and the performance is considered as critical; three indicators are used for evaluating the carbon resource and the performance is considered as satisfactory.

Please refer the table in Section 3.3.3 for more information.

SOCIAL CARBON STANDARD VERIFICATION REPORT

4 VERIFICATION CONCLUSION

RINA Services Spa (RINA) has performed the SOCIALCARBON validation of the project activity “Composting Project in Santa Catarina; Composting Project in Santa Catarina” in Brazil, with regard to the relevant requirements for SOCIALCARBON STANDARD activities.

The SOCIAL CARBON Indicators for “Santa Catarina Composting Project Indicators, version 1.1 of 09/06/2011” and the SOCIAL CARBON Methodology have been followed during the verification process of the project “Composting Project in Santa Catarina;”, particularly the project is in accordance to the six SOCIALCARBON Resources of the methodology: Social, Human, Financial, Natural, Technological and Carbon.

The conclusions of this report show that the Point One evaluation, as it was described in the project documentation and SOCIALCARBON Report is in line with all applicable criteria for the verification. All details of the Indicators are accurate and the calculation correct.

APPENDIX A

RESOLUTION OF CORRECTIVE ACTION REQUESTS AND CLARIFICATION REQUESTS

Corrective action and/ or clarification requests	Reference to Report Sections	Response by project participants	Verification Conclusion
CAR-1 The evaluation method for the indicator "Association and Cooperatives" request document and photos and none were presented	Association and Cooperatives.	The documents for "Association and Cooperatives" were sent to DOE.	Documents were received accordingly. It was verified the farms' association and cooperatives accordingly. CAR closed.
CAR-2 During the site visit and through interviews it was possible to verify that the swine farmers are indifferent to the composting and/or the carbon Project. The score applied is not in accordance with the "Santa Catarina Composting Project Indicators"	Farmer Satisfaction.	The indicator 'Farmer Satisfaction' was corrected to index 3: The swine farmer is indifferent to the composting and/or the carbon Project.	PP corrected the index accordingly. CAR closed.
CAR-3 During the site visit and through interviews it was possible to verify that the control of diseases agents includes one of the following actions: mechanical, chemical or biologic. The score applied is not in accordance with the "Santa Catarina Composting Project Indicators".	Diseases Agents	The indicator 'Disease Agents' was corrected to index 4: The control of diseases agents includes one of the following actions: mechanical, chemical or biologic.	PP corrected the index accordingly. CAR closed.
CAR-4 PP shall revise the indicator "Number of animals" in accordance with the Operational License from the last monitoring report and the Operational License from the current monitoring report.	Number of Animals	The indicator 'Number of Animals' was corrected, based on the comparison between the former Operational License and the current one.	PP corrected the indicator accordingly. CAR closed.
CAR-5 The evaluation method request documents for the indicator "Commercialization of carbon credits", and none were presented.	Commercialization of the carbon credits	The documents for the indicator "commercialization of carbon credits" were sent to DOE.	Documents were received accordingly. It was verified the commercialization of carbon credits accordingly. CAR closed.
CAR-06 During the site visit and through interviews it was possible to verify that the quality of the compost was tested in crops and it was positive. The score	Compost quality	The indicator 'Compost Quality' was corrected to index 2: The quality of the compost was not assessed by laboratorial tests, however it was tested in crops and it was positive.	PP corrected the index accordingly. CAR closed.

applied is not in accordance with the "Santa Catarina Composting Project Indicators"			
CAR-07 During the site visit and through interviews it was possible to verify that he swine farmer would commit to support technology diffusion, though he is not aware which procedures should be undertaken. The score applied is not in accordance with the "Santa Catarina Composting Project Indicators"	Technology Diffusion	The indicator 'Technology Diffusion' was corrected to index 2: The swine farmer would commit to support technology diffusion, though he is not aware which procedures should be undertaken.	PP corrected the index accordingly. CAR closed.
CAR-08 PP shall revise the accuracy of information and the score applied according to the MR revision.	Project Performance	According to the MR, the emission reductions achieved during the current monitoring period was around 85% from those estimated in the VCS PD. Therefore, the indicator 'Project Performance' was corrected to index 5: Great. From 76 to 95% of the emission reductions of the period were verified.	PP corrected the Project Performance accordingly. CAR closed.
CAR-09 The performance by resource from Table 03 from SCR version 1 /1/ are not in accordance with the indicators results of the project.	Sustainability performance of the project	The numbers from Table 03 "Performance of the Composting Project in Santa Catarina by resource" were corrected in order to present the correct values according to the results of the project.	The performance by resource was corrected accordingly. CAR closed.
CAR-10 Since this report is point zero, the Section 6.1 cannot be applied.	Section 6 Perspectives Section 6.1	Section 6.1 of the SOCIALCARBON Report (SCR) was corrected, as no comparison could be done with point zero.	Section 6.1 was corrected. CAR closed.
CAR-11 In accordance with SOCIALCARBON STANDARD, PP shall present at least one perspective for each resource.	Section 6 Perspectives Section 6.2	Section 6.2 of the SCR was corrected. At least one perspective for each resource was included in this section.	PP presented at least one perspective for each resource. CAR closed.
CAR-12 During the site visit, the application of the SOCIAL CARBON questionnaire was applied at the farms: - Fazenda Andretta,	SOCIALCARBON Indicators	The answers of the questionnaires applied at Andretta Farm, Helena Farm and Colônia Zuffo farm were included in the SCR. The indexes of each resource were also updated accordingly.	PP included the questionnaires applied during the site visit accordingly. CAR closed.

- Fazenda Helena - Fazenda Colônia Zuffo The answers of the questionnaire shall be included in the SOCIALCARBON Report.			
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RINA

**CERTIFICATO DI QUALIFICA
QUALIFICATION CERTIFICATE**

Si attesta che il sig./sig.ra:
We declare that Mr/Mrs/Ms:

Thais De Lima Carvalho

è qualificato come¹:
is qualified as:

CDM -TEC, -VAL, -VER, -TL

per le seguenti aree tecniche:
for the following technical areas:

1.1, 1.2, 2.1, 13.1

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.1	Thermal energy generation	1
1.2	Renewables	1
2.1	Electricity distribution	2
13.1	Solid waste and wastewater	13

in accordo alle istruzioni della Divisione Certificazione.
in accordance with the instructions of the Certification Division.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	19-08-2009	-
12	15-01-2015	Added TA 2.1

Il Resp. QPT
Head of QPT

¹ Legend:

VAL: Validator
VER: Verifier
TEC: Technical Expert
TL: Team Leader
FIN-EXP: Financial Expert
DET: Determiner

CDM: Clean Development Mechanism
VCS : Verified Carbon Standard:
GS: Gold Standard
SCS: SocialCarbon Standard
JI: Joint Implementation

RINA Services S.p.A. è accreditato da UNFCCC, quale Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM, da VCSA per condurre la Validazione e la Verifica di Progetti VCS, da GS Foundation, per condurre la Validazione e la Verifica di Progetti GS, da Ecologica Institute per condurre la Validazione e la Verifica di rapporti SCS

RINA Services S.p.A. is accredited by the UNFCCC, as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects, by the VCSA, to carry out Validation and Verification of VCS Projects, by the GS Foundation, to carry out Validation and Verification of GS Projects and by the Ecologica Institute, to carry out Validation and Verification of SCS Reports



RINA

CERTIFICATO DI QUALIFICA QUALIFICATION CERTIFICATE

Si attesta che il sig./sig.ra:
We declare that Mr/Mrs/Ms:

Rafael Krupper

è qualificato come¹:
is qualified as:

CDM/GS/VCS/SCS -TEC, -VAL, -VER, -TL

per le seguenti aree tecniche:
for the following technical areas:

1.1, 1.2

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.1	Thermal energy generation	1
1.2	Renewables	1

in accordo alle istruzioni della Divisione Certificazione.
in accordance with the instructions of the Certification Division.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	30/03/2015	First issue

Il Resp. QPT
Head of QPT

¹ Legend:

VAL: Validator
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RINA

**CERTIFICATO DI QUALIFICA
QUALIFICATION CERTIFICATE**

Si attesta che il sig./sig.ra:
We declare that Mr/Mrs/Ms:

Rita Valoroso

è qualificato come1:
is qualified as:

**CDM -TEC, -VAL, -VER, -TL
TECHNICAL REVIEWER**

per le seguenti aree tecniche:
for the following technical areas:

1.2, 13.1

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.2	Renewables	1
13.1	Solid Waste and waste water	13

in accordo alle istruzioni della Divisione Certificazione.
in accordance with the instructions of the Certification Division.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	18-01-10	-
9	22-12-2014	Update qualification according to AS ver.6.0

Il Resp. QPT
Head of QPT

¹ Legend:

VAL: Validator
VER: Verifier
TEC: Technical Expert
TL: Team Leader
FIN-EXP: Financial Expert
DET: Determiner

CDM: Clean Development Mechanism
VCS : Verified Carbon Standard:
GS: Gold Standard
SCS: SocialCarbon Standard
JI: Joint Implementation

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