

GOLD STANDARD VERIFICATION REPORT

For: myclimate Foundation

REPORT NO.: GS1334VER05



SUSTAINCERT
KNOW YOUR IMPACT

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Abbreviations used in this Report

CAR	Corrective Action Request
CDM	Clean Development Mechanism
CL	Clarification request
CO2	Carbon dioxide
CO2e	Carbon dioxide equivalent
DNA	Designated National Authority
DR	Document Review
EF	Emission Factor
ERPA	Emission Reduction Purchase Agreement
ER	Emission Reductions
EIA	Environmental Impact Assessment
FAR	Forward Action Request
GWP	Global Warming Potential
GS	Gold Standard
GHG	Greenhouse gas(es)
IPCC	Intergovernmental Panel on Climate Change
IRR	Internal Rate of Return
kWh	Kilo Watt Hour
MW	Mega Watt
NC	Non-Conformity
NCV	Net Calorific Value
NGO	Non-governmental Organisation
ODA	Official Development Assistance
PDD	Project Design Document
PD	Project Developer
tCO2e	Tonnes of CO2 equivalents
UNFCCC	United Nations Framework Convention on Climate Change
BH	Borehole
GS4GG	Gold Standard for the Global Goals
ICS	Improved Cookstove
MWh	MegaWattHour
CH4	Methane
MR	Monitoring Report
N2O	Nitrous Oxide
POA	Programme of Activity
SGP	Safeguarding Principles
SDG	Sustainable Development Goal
SC	SustainCERT

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TPDDTE Technologies and Practices to Displace Decentralised Thermal Energy
C Consumption
UN United Nations
VVB Validation and Verification Body
VER Verified Emission Reduction
VPA Voluntary Project Activity

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1 OBJECTIVE AND CRITERIA

1.1 Objective

Gold Standard projects must undergo independent verification of emission reductions and overall compliance with Gold Standard rules as the basis for issuance of Gold Standard Voluntary Emission Reductions (GS VERs).

The objectives of this verification are to determine if the GHG statement and other reporting information is accurate and conforms with the criteria defined in Gold Standard rules.

This report details the objectives, scope, criteria, methodology and findings of this process and a final opinion.

The Gold Standard requires that the final version of this report is published in the public domain. The client to whom this report is addressed therefore acknowledges that the final version of this report will be published unless SustainCERT (SC) are informed in writing within 1 business day following issuance of the final version to the client.

1.2 SCOPE

GHG related activity	Verification
Project Title (s)	Distribution of Energy Savings Lamps in Madagascar – Project 1
Project ID (s) (i.e.: GS-ID)	GS1334
GS Project Type	Energy Efficient Lighting (Community Service Activity)
PoA Title (if applicable)	N/A
POA ID (if applicable)	N/A

The scope of verification covers the emissions reductions project in that is prepared in accordance with the Monitoring Report of the GS ID (s) listed above.

Consistent with Gold Standard requirements, only the following GHGs are considered within the scope of the assessment: CO₂ CH₄ N₂O.

2 TEAM COMPOSITION

Validation/Verification Team

Name	Qualification	Coverage of sectoral/technical area	Host country experience	Conducted Site visit / Remote Audit
Neha Rao	TL	<input checked="" type="checkbox"/> (All)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Neha Rao	V	<input checked="" type="checkbox"/> (Energy)	<input checked="" type="checkbox"/>	-

Independent Review team and approver

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Name	Role	Coverage of technical area
Shivraj Sharma	Independent R	<input checked="" type="checkbox"/> (All)
Shivraj Sharma	Approver	N/A

3 PROJECT INFORMATION

3.1 Monitoring Period

Start of Monitoring Period	01/01/2019
End of Monitoring period	31/12/2019
Total Emission Reductions	4144 tCO ₂ e
Total SDG 1: No Poverty	Percent energy savings: 15.6%
Total SDG 7: Access to clean and affordable energy	Clean energy: 9.4 – 15.9 GWh
Total SDG 12: Responsible production & consumption	CFLs collected for recycling: 4,777
Total SDG 17: Partnership for the Goals	Number of lamps imported: 518,248
Date of MR Report	29/11/2019
Version of MR Report	02

3.2 Annual projections

Annual Average Emission Reductions (SDG 13)	N/A
Total SDG x	N/A
Total SDG y	N/A
Total SDG z	N/A

4 VERIFICATION/VALIDATION OPINION

Unmodified Opinion	<input checked="" type="checkbox"/>
Modified Opinion (see reasons below)	<input type="checkbox"/>
Adverse Opinion (see reasons below)	<input type="checkbox"/>
Disclaimer of Opinion	<input type="checkbox"/>

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The project representative to whom this report is addressed is responsible for the preparation and fair presentation of GHG and other reporting information in accordance with Gold Standard rules.

SustainCERT is responsible for expressing this verification opinion on the GHG and other reporting information based on the evidence gathering procedures documented in this report. The GHG verification was planned and carried out in accordance with ISO 14064-3 (Specification with guidance for the verification and validation of greenhouse gas statements) to provide a reasonable level of assurance that the information is accurate.

Reason for Modified Opinion (if applicable)	N/A
Reason for Adverse Opinion (if applicable)	N/A
Reason for Disclaimer (not issuing) of Opinion (if applicable)	N/A

Conclusion:

Considering the following information and the one provided in this report:

GHG-related activity	Verification
Project Title (s)	Distribution of Energy Savings Lamps in Madagascar – Project 1
Start of Monitoring Period	01/01/2019
End of Monitoring period	31/12/2019
Date of MR Report	29/11/2019
Version of MR Report	2.0

Verification period is equal to the monitoring start and end dates mentioned above.

SustainCERT (SC) concludes that:

The GHG emission reductions are calculated without material misstatements for the aforementioned monitoring period and has been prepared in accordance with the verification criteria and is a materially correct and fair representation of GHG other reporting information. Our opinion refers to reported project's information on GHG emissions and resulting reductions, which were determined using the valid and certified baseline, monitoring plan and other relevant documents.

Based on the information we have assessed; we can confirm that the implementation of the project resulted in the aforementioned emission reductions during the corresponding monitoring period

Verified GHG emission reductions and removals in the above verification period:

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Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
01/01/2019 to 31/12/2019	5656	1512	0	4144
Total	5656	1512	0	4144

The conclusion is reached based on the following criteria:

The criteria for this verification are defined in the following documents stated in the Monitoring Report (MR)

- GS4GG Principles & Requirements
- GS4GG Stakeholder Consultation Requirements & Guidelines
- GS4GG Safeguarding Principles & Requirements
- GS4GG GHG-Emissions-Reduction-Sequestration-Product-Requirements
- Design Certified PDD (s) version 02

Optional Requirements

- AMS-II.J Demand-side activities for efficient lighting technologies, Version 04

Authorised Signatory Name:	Shivraj Sharma – Director of Validation & Verification
Signature	<i>Shivraj Sharma</i>
Date of this report approval	30/12/2022
Version of this report	01
Office Location	Luxembourg

The verification of the GHG statement was conducted in accordance with ISO 14064-3 and corresponding GHG scheme.

5 METHODOLOGY

5.1 Desk Review

An initial verification documentary review was conducted by SustainCERT involving

- A review of the data and information presented in the MR to verify their completeness.
- A review of the approved monitoring plan and monitoring methodology
- An evaluation of data management and quality control system used in the generation and reporting of data and information

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Whenever the assessment question does not immediately lead to a conclusion, clarifications (CLs) and corrective action requests (CARs) are issued as Findings/Comments against the relevant Rule and Assessment Question.

If a Findings is closed, it will result in a conclusion of either OK, a Forward Action Request (FAR) or an Observation (OBS). If a Finding cannot be closed and a requirement cannot be shown to be met, an NC (Non-conformity) is issued.

OK, CARs, CLs, FARs, OBS and NC are further explained below:

- OK - issued when a requirement has been met.
- CAR (Corrective Action Request) - issued if one of the following occurs:
 - There is a risk that emission reductions cannot be monitored or calculated
 - Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions
 - Gold Standard requirements have not been shown to be met
- Clarification request (CL) - issued if information is insufficient or not clear enough to determine whether a requirement has been met
- Forward Action Requests (FARs) – issued to highlight issues related to implementation that require review at the next verification
- Observations (OBS) - issued where there may be a possible future non-conformity against a requirement.
- Non-Conformity (NC) – issued if a requirement has not been met and cannot be met.

To demonstrate transparency, all Findings (along with the relevant Rule and Assessment Question) are transferred to a separate Review Feedback table (shown below) to provide a written record of how they are discussed and how the conclusion was reached. A transcript of the Review Feedback is available as Appendix 1, which also includes a list of the Supporting Document (s) provided and Reviewed.

5.2 Site Visit

A site visit is chosen on the basis of risk assessment.

It was determined during our Risk Analysis that a site was not required because we undertook the previous verification and no significant changes have been made to the project since this verification. Also, following the GS4GG Covid-19 Interim Measures, no site visit was therefore undertaken.

However, in line with the GS4GG Remote Audit & Site Visit Requirements, a remote audit via video calls and desk review was carried out during the year 2022 to do the following:

1. Assess the design/operation of the Project
2. Interview personnel and stakeholders regarding the Project operation and data collection procedures.
3. Cross check reported information with evidence observed on site.

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Appendix: 1- CLARIFICATION REQUESTS, CORRECTIVE ACTION REQUESTS

Distribution of Energy Savings Lamps in Madagascar – Project 1 (GS 1334)

Internal Verification Form for GS Micro Scale Projects and Micro VPAs under Gold Standard for the Global Goals

Project summary	
Project Type:	Energy Efficiency-Domestic
Micro Scale Limit:	10000
Project Location:	Madagascar
Impact Methodology Applied:	AMS-II. J Demand-side activities for efficient lighting technologies, version 04
Date of Project Design Certification:	08/04/2014
Start Date of Crediting Period:	01/01/2015
Date of Last OO visit	-
PoA Title and GS ID (for Micro VPA):	Not applicable
Project details: The Project activity involves the dissemination of around 540,000 CFLs (Compact Fluorescent Lamps) to grid-connected households in the city of Antananarivo, Madagascar to replace inefficient ICLs (Incandescent Lamps). Further, the project aims at moving towards the establishment of a regulatory framework promoting good quality lamps at an affordable price on the market. Efficient lamps reduce domestic electricity consumption from the grid and in this way, they reduce CO2 emissions from thermal power plants in Madagascar.	

Monitoring Period Information	
Duration of this monitoring period:	01/01/2019 to 31/12/2019
Crediting Period Sequence Number:	Fixed
Monitoring Period Sequence Number:	1 st / 2 nd / 3 rd / 4 th / 5 th / 6 th / 7 th
SDG Impacts (min 3):	
SDG 1. No Poverty	15 % energy expense savings
SDG 7. Affordable and clean energy	7,035 GWh
SDG 12. Sustainable consumption and production	-
SDG 13. Climate Action	4,144 tCO ₂ e
SDG 17. Partnerships for the goals	ca. 540,000 CFLs

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Product Totals:	VER (√)
Vintage Break	
01/01/2018 to 31/12/2019	4,144 tCO _{2e}

OO Assigned	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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Review Feedback Round:	i
Version number of the PDD	01
Completion date of version	29/11/2019
Supporting Document (s) provided and Reviewed (round 1)	<ul style="list-style-type: none"> • Gold Standard Monitoring Report (GS1334_monitoring_report_2019.docx) • Emission Reduction Calculation Excel File (210930_GS1334_ERs_calculation_2019.xlsx) • Kitchen Surveys & Kitchen Performance Test results (18 12 01 ex_post_moniotoring_survey_report_2018EN_v1[1].docx) • Other Document 1 (data.xlsx)
Supporting Document (s) provided and Reviewed (Final round)	<ul style="list-style-type: none"> • 220826_GS1334_ERs_calculation_2019_Round I.xlsx • ex_post_monitoring_survey_report_2021_v1.docx • data.xlsx • GS1334 MR2019_Round II.docx

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Decision:

Rejected	<input type="checkbox"/>
Request for clarifications and /or corrective action	<input type="checkbox"/>
To be submitted for external verification	<input type="checkbox"/>
Verified	<input checked="" type="checkbox"/>

Review Results: Please respond to the following comments and/or requests for additional information and update your project documentation where needed.

Sections	Clarifications and/or corrective action needed	Response by Project Representative
Monitoring Report	The MR report shall be prepared using the most up to date version of GS4GG template at time of submission. The latest version of the GS4GG MR template is v1.1. The Comment/Request is closed.	The data has been transferred to the most uptodate template.
All Sections	The dates shall be presented in the format DD/MM/YYYY in the monitoring report The Comment/Request is closed.	Has been changed.
Cover Page	The “estimated emission reductions” as per the cover page of the MR are 6,829 GS VERs per year, while the same are 7,470 GS VERs per year as per the Transition Annex. PD shall clarify on this inconsistency. Comment/Request is closed.	Has been changed.
Cover Page	Design certification date shall be updated on the sustain-cert app. Comment/Request is closed. The same has been updated by the SC Team.	How to do this?
Cover Page	SDG Contributions targeted (as per approved PDD) – Only the targeted SDGs shall be included under this – not the contributions Comment/Request is open. Table # 2 on page # 3 of the MR shall be completed by the PD for each SDG.	In V1.1 of the MR there is no SDG contributions targeted, only ...achieved.

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Sections	Clarifications and/or corrective action needed	Response by Project Representative
	Comment/Request is closed based on the corrections made by the PD in Table # 2 of the MR.	
Cover Page	PD shall clarify why the certified SDG impact achieved in this monitoring period for SDG12 marked as not estimated. Comment/Request is closed.	The figures are filled in.
Section A.1	In section A.1., LFR is mentioned as 35.6%. The LFR rate mentioned in section B.1 of the MR and ER spreadsheet is 44.5%. The PD shall check on this inconsistency. Comment/Request is closed.	This paragraph has been removed from Section A.1.
Section A.1	The PD shall provide details on the continued operation period including the number of installed equipment that are still operating during the monitoring period in Section A.1 as per the MR filling guidelines. Comment/Request is closed.	Has been included.
Section A.1	As per the project description in Section A.1, “the project is the distribution of around 540,000 high quality CFLs (Compact Fluorescent Lamps)”. 518,248 CFLs were sold to households at a subsidized price during the period Sept 2013 to Dec 2014. PP shall clarify and describe in the MR regarding the remaining CFLs – whether they are distributed, planned to be distributed etc. Comment/Request is closed.	Now described.
Section B.1	The PD shall also provide details on the repair and operation & maintenance services, replacements conducted during the monitoring period. Comment/Request is closed.	Done.
Section B.1	The PD shall provide exact dates or period when the survey was carried out in 2020. Comment/Request is closed.	Done.
Section B.1.	PD shall clarify why no trainings were conducted during the monitoring period. Comment/Request is closed.	Done.

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Sections	Clarifications and/or corrective action needed	Response by Project Representative
Section C	As per Section C, 3rd survey was conducted in 2020 and the results from this survey are applied to the current monitoring period. The PD shall submit 2020 survey report. Comment/Request is closed.	The survey was conducted in 2021. The survey report will be uploaded.
Section D.2	Average monetary savings per household due to CFL usage: As per the transition annex, the unit used shall be Ariary (currency). The value in the MR is mentioned in %. PD shall include the value in Ariary also for SDG 1 for consistency. Comment/Request is closed.	No. in Section D.2 Ariary are given.
Section D.2	Average monetary savings per household due to CFL usage: MR mentions that according to the utility JIRAMA, the price per kWh today is 830 Ar per kWh. PD shall provide supporting document from the utility for the same. Comment/Request is closed.	Price per kwh of 2019 is used and source included.
Section D.2	Corresponding to the parameter “ <i>Number of CFLs collected and recycled or safely disposed</i> ”, it shall be clarified as how the “ <i>staff trainings/caution in handling during the transport</i> ” was taken care during the monitoring period. Comment/Request is closed.	The waste management company was operating according to their internal guidelines.
Section D.3.	As per the registered PDD, the following is available: “ <i>Using an online sample size calculator (http://www.raosoft.com/samplesize.html) the error margin for a sample size of 200 at 90% confidence level is expected to be 5.81%. For ex—post monitoring surveys also a sample size of 200 is envisaged. In case the sample does not provide data that fulfill max. 10% error at 90% confidence level, more households will be interviewed until the requested precision has been attained</i> ”. PD has mentioned that a sample size of 90 was taken - in the Section D.3 of the MR. PP shall clarify as how the above minimum 200 sample size requirement has been met by the project activity. Comment/Request is closed.	Please see the monitoring survey from 2021.
Section D.3	The PD shall demonstrate in the MR or the spreadsheet that the required confidence/precision level has been met.	See monitoring survey 2021.

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Sections	Clarifications and/or corrective action needed	Response by Project Representative
	Comment/Request is closed.	
Section D.3	The PD shall demonstrate in the MR that the samples were randomly selected and are representative of the population. Comment/Request is closed.	See monitoring survey 2021.
Section E.1	SDG13: Baseline emissions calculated for 25MW are different from that mentioned in the ER spreadsheet. The PD shall check and clarify on this inconsistency. Comment/Request is closed.	As been corrected.
Section E.1	SDG 13: As per the MR, BE = 28 tCO ₂ + 1,567 tCO ₂ + 4,059 tCO ₂ = 5,656 tCO ₂ . However, 28+1567+4059 = 5,654tCO ₂ . PD shall check and clarify on the inconsistency. Comment/Request is closed.	Has been adopted. Sorry for the typo.
Section E.3	Savings percentage is mentioned as 15.6 %. The same is mentioned as 15% on the cover page, section E.4. and section E.5. PD shall check on this inconsistency. Comment/Request is closed.	Has been made consistent.
Section E.4	SDG 13: Net benefit mentioned in the MR is 4,808 tCO ₂ e. The value mentioned in the ER spreadsheet is 4,808tCO ₂ e. PD shall check on this inconsistency. Comment/Request is closed.	Has been adopted. Sorry for the typo.
Section F	PP is requested to clarify what grievance mechanisms have been put in place (access to phone/mobile, email/internet access) for stakeholders to contact for any grievances/comments on the project activity during the monitoring period. Comment/Request is closed.	Done.
Section F.3	PP shall include a response under section F.3. Comment/Request is closed.	F3 does not exist in the new template.
ER spreadsheet	The monetary savings as per the tab “number of CFLs” is different from that provided in the MR. The PP shall clarify this inconsistency. Comment/Request is closed.	Excel sheet corrected.

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Appendix: 2 - FORWARD ACTION REQUESTS

Forward Action Request (FAR) # 1: As per the GS4GG Remote Audit and Site Visit Requirements, an onsite visit by the Objective Observer shall be carried out for the next periodic verification.

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