

**Gold Standard for the Global Goals
Transition Annex**
*(To be used by all GS CDM/VER stand alone projects and PoAs, Micro
Scale stand alone projects and Micro PoAs)*



Version 1 – September 2017

KEY PROJECT INFORMATION

Title of Project/PoA/Activity:	GS1729 Myanmar Stoves Campaign
GS ID of the project/PoA/activity:	GS1729 Myanmar Stoves Campaign - Soneva in Myanmar - VPA No. 006 GS ID of the Activity (VPA 006) = GS 5662
GS Version:	V 2.2
Brief description of Project:	Myanmar Stoves Campaign aims to facilitate access to fuel-efficient cookstoves to the financially poor and under-served rural communities in Myanmar, eliminating their dependency on three stone fires, providing them with better health and safety, economic savings along with reducing GHG emissions and deforestation rates.
Project type: Energy/Land Use	Energy (End user energy efficiency)
For Renewable Energy Projects – intention to apply RECs Labels (y/n)	N
GS Stream (CDM/VER):	VER
Scale (large/scale/micro):	Micro
GS Registration Date:	24/11/2017 (Validated on)
GS Crediting period start date:	01/05/2016
CDM Registration Date:	
CDM Crediting period start date:	
Project Developer:	Soneva Foundation
Project Representative:	Mr. Arnfinn Oines
Project Participants and any communities involved:	Soneva Foundation, Mercy Corps Myanmar, Local Administration and Community Leaders/Participants in the target regions, and, Ministry of Natural Resources and Environmental Conservation, Govt. of Republic of the Union of Myanmar.
Host Country/Location:	Republic of the Union of Myanmar
Methodologies applied:	"Simplified micro-scale cookstove methodology" by Gold Standard Foundation.
SDG Impacts:	1 – SDG 3: Ensure healthy lives and promote well-being for all at all ages 2 – SDG 7: Ensure access to affordable, reliable, sustainable and modern energy for all 3 – SDG 8: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all 4 - SDG 13: Take urgent action to combat climate change and its impacts
Estimated amount of SDG Impact (GSVERs and others)	<u>SDG 3: Ensure healthy lives and promote well-being for all of all ages</u> This VPA alone serves 1821 households and has improved the health and safety of around 10,000 people due to the fuel-efficient cookstove. This is in line with the Target 3.9.1, which states to reduce the number of mortality rate attributed to household and ambient air pollution <u>SDG 7: Ensure access to affordable, reliable, sustainable and modern energy for all</u>

	<p>This VPA has brought fuel-efficient cookstove, thus improving the energy efficiency for their cooking practices as compared to the old, three-stone fires, in line with the Target 7.3, which states, By 2030, double the global rate of improvement in energy efficiency. It also covers the Target 7.b, which focuses on bringing technology to LDCs</p> <p><u>SDG 8: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all</u></p> <p>Myanmar Stoves Campaign’s project design includes selecting, training and developing the local men and women for the role of sale agents, for distribution and selling of stoves to the households. This provides these local entrepreneurs with transferable skills and income source. This is in line with the Target 8.3.1, which states, to increase the Proportion of informal employment in non-agriculture employment, by sex. Since the start of the program and until the end of this VPA period, 410 such sale agents were trained and developed, which includes almost 40% women.</p> <p><u>SDG 13: Take urgent action to combat climate change and its impacts</u></p> <p>The VERs claimed by this VPA, are expected to be around 10,00 VERs during the first issuance.</p> <p>In addition to this, in line with Target 13.3, states, to improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning. The Myanmar Stoves Campaign has conducted more than 600 such village level awareness raising events which were attended by more than 20,000 participants, of which were women are around 51%</p> <p>The project, as per Target 13.b.1, also uses the carbon finance to support technology and capacity building for mechanisms for raising capacities for effective climate change-related planning and management, including focusing on women, youth and local and marginalized communities</p>
For Land-use & Forest Projects only – delete if irrelevant	
Size of the Project Area and Planting Area [submit shape file]:	
Risk of change to the Project Area and/or land title during Project Certification Period:	
Risk of change to the Project activities during Project Certification Period:	
Land-use history and current status of Project Area:	
Socio-Economic history:	
Forest management applied (past and future)	
Forest characteristics (including main tree species planted)	

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Main social impacts (risks and benefits)	
Main environmental impacts (risks and benefits)	
Financial structure	
Project Area:	Pyawbwe Township, Mandalay Disvision
Planting Area:	
Eligible Planting Area:	
Modelling Units:	
Infrastructure (roads/houses etc):	
Water bodies:	
Sites with special significance for indigenous people and local communities - resulting from the Stakeholder Consultation:	
Where indigenous people and local communities are situated:	
Where indigenous people and local communities have legal rights, customary rights or sites with special cultural, ecological, economic, religious or spiritual significance:	
Evidence that Project Boundary is clearly distinguishable in the field:	Maps and List of Villages included in this VPA shared in the VPA-DD. The end-users from these villages, and part of this VPA can be located and cross-checked in the Total Sales Record, which has information on all the end users.

NOTE: This Annex shall be used for all PoAs if the sustainable development assessment is conducted at PoA level. In case sustainable development assessment is conducted at activity level, then this Annex shall be filled for each of the activities.

SECTION A Sustainable Development Goals (SDG) outcomes

A.1 Relevant target for each of the three SDGs

>> (Specify the relevant SDG target for at least each of three SDGs addressed by the project. Refer most recent version of targets [here](#). Contribution to SDG 13 is mandatory to be demonstrated for all projects and activities. Contribution to SDG 7 is recommended to be demonstrated for all community service projects and activities)

SDG	Target
SDG 3: Ensure healthy lives and promote well-being for all of all ages	This VPA covers 1821 households, impacting around 10,000 people in total with improved health and safety due to FES
SDG 7: Ensure access to affordable, reliable, sustainable and modern energy for all	This VPA has brought an energy efficient cookstove, as compared to the old three stone fire, to 1821 rural under-served households
SDG 8: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	Myanmar Stoves Campaign's project design includes selecting, training and developing the local men and women for the role of sale agents, for distribution and selling of stoves to the households. This provides these local entrepreneurs with transferable skills and income source. Since the start of the program and until the end of this VPA period, 410 such sale agents were trained and developed, which includes almost 40% women.
SDG 13: Take urgent action to combat climate change and its impacts	The VERs claimed by this VPA, during its first issuance are around 10,000 VERs The Myanmar Stoves Campaign has conducted more than 600 such village level awareness raising events which were attended by more than 20,000 participants, of which were women are around 51%

A.2 Explanation of methodological choices/approaches for estimating the SDG outcome

>> (Explain how the methodological steps in the selected methodology(ies) or proposed approach for calculating baseline and project outcomes are applied. Clearly state which equations will be used in calculating net benefit.)

SDG	Method
SDG 3: Ensure healthy lives and promote well-being for all at all ages	The Total Sales Record maintains the total number of FES distributed in this VPA, from its start date to end date, which helps to estimate the number of lives this VPA has impacted. The FES has reported reductions in CO and PM emissions as compared to three stone fires by 82% and 70% respectively (Link), which contributes to the health and well-being by reduction of Indoor Air Pollution.

SDG 7: Ensure access to affordable, reliable, sustainable and modern energy for all	The Total Sales Record maintains the total number of FES distributed in this VPA, from its start date to end date, which helps to estimate the number of lives this VPA has impacted.
SDG 8: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	The Project Tracking File records the number of sale agents created during each VPA.
SDG 13: Take urgent action to combat climate change and its impacts	The Project Tracking File records the number of awareness raising sessions conducted during each VPA. VERs from this VPA calculated as per "Simplified micro-scale cookstove methodology" by Gold Standard Foundation.

A.3 Data and parameters fixed ex ante for monitoring contribution to each of the three SDGs

(Include a compilation of information on the data and parameters that are not monitored during the crediting period but are determined before the design certification and remain fixed throughout the crediting period like IPCC defaults and other methodology defaults. Copy this table for each piece of data and parameter.)

Relevant SDG Indicator	SDG 13: Take urgent action to combat climate change and its impacts
Data/parameter	EF_{b, fuel, CO2}
Unit	tCO ₂ /t firewood
Description	CO ₂ emission factor arising from the use of firewood in baseline scenario
Source of data	IPCC default values, table 1.4 of chapter 1 of Vol. 2, 2006 IPCC Guidelines for National Greenhouse Gas Inventories
Value(s) applied	1.747
Choice of data or Measurement methods and procedures	Deemed valid by GS VER Methodology
Purpose of data	To calculate VERs
Additional comment	Measuring emission factors from stove technologies is costly and difficult to do accurately. The CME applies default IPCC emission values.

Relevant SDG Indicator	SDG 13: Take urgent action to combat climate change and its impacts
Data/parameter	EF_{b, fuel, non_CO2}
Unit	tCO ₂ /t firewood
Description	Non-CO ₂ emission factor for use of firewood in baseline scenario
Source of data	IPCC default value, table 2.9 of chapter 2 of Vol. 2, 2006 IPCC Guidelines for National Greenhouse Gas Inventories
Value(s) applied	0.455

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Choice of data or Measurement methods and procedures	Deemed valid by GS VER Methodology
Purpose of data	To calculate VERs
Additional comment	Measuring emission factors from stove technologies is costly and difficult to do accurately. The CME applies default IPCC emission values.

Relevant SDG Indicator	SDG 13: Take urgent action to combat climate change and its impacts
Data/parameter	η_b
Unit	Fraction
Description	Efficiency of the baseline system being replaced
Source of data	Methodology
Value(s) applied	10%
Choice of data or Measurement methods and procedures	Default value as per the GS methodology.
Purpose of data	To calculate VERs
Additional comment	Measuring emission factors from stove technologies is costly and difficult to do accurately. The CME applies default IPCC emission values.

Relevant SDG Indicator	SDG 13: Take urgent action to combat climate change and its impacts
Data/parameter	η_p
Unit	Percent
Description	Efficiency of the cookstove i being used in the project scenario
Source of data	Manufacturer's website > section on the specifications project stove Envirofit M5000 (SuperSaver GL) (Reference: Weblink)
Value(s) applied	29.7%
Choice of data or Measurement methods and procedures	The value is derived from Envirofit, the manufacturers of these stoves who issue these results after complying with all relevant test standards and procedures for the certification of their products.
Purpose of data	To calculate VERs
Additional comment	The project stove has been independently tested and is widely used in different countries.

Relevant SDG Indicator	SDG 13: Take urgent action to combat climate change and its impacts
Data/parameter	$f_{NRB, y}$
Unit	Fraction
Description	Default values of fraction of non-renewable biomass for least developed countries and small island developing states
Source of data	CDM EB67 Report Annex 22 (Weblink)

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Value(s) applied	0.95
Choice of data or Measurement methods and procedures	The default fNRB approved by CDM EB will be applied to all VPAs. If this value is updated by the EB or rejected by the Myanmar DNA, then each VPA using this value will be updated either at VPA inclusion or verification.
Purpose of data	To calculate VERs
Additional comment	The PP has this value endorsed by the local implementation partner, Mercy Corps

Relevant SDG Indicator	SDG 13: Take urgent action to combat climate change and its impacts
Data/parameter	B_{b,y}
Unit	t/hh/a (tons firewood per household per annum)
Description	Quantity of firewood consumed for cooking in baseline scenario during year y
Source of data	Baseline survey
Value(s) applied	3.94
Choice of data or Measurement methods and procedures	<p>The value derived from ex-ante baseline surveys (Weblink). As per the methodology, the baseline may be reassessed post-registration, in time for verification if survey reveals significant changes over time. Estimates for average annual fuel use will be derived from the project survey.</p> <p>Three main reasons for higher than usual fuelwood consumption:</p> <p>Most families own livestock, mainly pigs, chicken, and cows. A common feedstock is broken rice which is cooked together with other cereals in order to make it easier to digest for the animals. This habit adds another cooking session per day.</p> <p>Farmers are regularly visited by traders to negotiate purchases of harvested goods. During these visits families prepare food for guests, requiring additional cooking.</p> <p>During fieldwork, additional food is prepared for farmworkers.</p> <p>Alternatively, the default value suggested by the GS methodology (0.5 tons/capita/year) may be used instead.</p>
Purpose of data	To calculate VERs
Additional comment	All data sources are transparent and verifiable. Refer to baseline survey report for details.

Relevant SDG Indicator	SDG 13: Take urgent action to combat climate change and its impacts
Data/parameter	LE_{p,i,y}
Unit	fraction
Description	Leakage in project scenario p, for technology i, during year y
Source of data	Default value
Value(s) applied	0.95
Choice of data or Measurement methods and procedures	Deemed valid per the GS methodology.
Purpose of data	To calculate VERs

Additional comment	
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SECTION B Safeguarding Principles Assessment

B.1 Analysis of social, economic and environmental impacts

>> (Refer the GS4GG Safeguarding Principles and Requirements document for detailed guidance on carrying out this assessment. The assessment of following Safeguarding Principles Assessment is required to be carried out by GS Version 2.0, 2.1 and 2.2 projects. GS v1.0 projects will carry out assessment of all the safeguarding principles discussed in the GS4GG Safeguarding Principles and Requirements document.)

Safeguarding principles	Assessment questions	Assessment of relevance to the project (Yes/potentially/no)	Justification	Mitigation measure (if required)
Human Rights	Myanmar ratified the following relevant treaties and convention. Convention on the Elimination of All Forms of Discrimination against Women (CEDAW) (New York, 18 Dec 1979) Convention on the Rights of the Child (CRC) (New York, 20 November 1989)			
	1. The project respects internationally proclaimed human rights including dignity, cultural property and uniqueness of indigenous people. The the project is not complicit in Human Rights abuses.	Low	The project activity is on a voluntary basis, villagers are not forced to join. The project generates only in-house activity. This doesn't affect any cultural property, and uniqueness of indigenous people. No human right abuse has been observed.	Not applicable
	2. The project does not involve and is not complicit in involuntary resettlement.	Low	The project activity doesn't lead or involve any resettlement.	Not applicable
	3. The project does not involve and is not complicit in the alteration, damage or removal of any critical cultural heritage.	Low	The project activity is in-house activity only, and it doesn't cause damage or removal of any	Not applicable

			critical cultural heritage.	
Labour rights	<p>Myanmar ratified the following relevant treaties and convention.</p> <p>C182 - Worst Forms of Child Labour Convention, 1999 (No. 182)</p> <p>ILO convention 29 on Forced labor (1930)</p>			
	4. The project respects the employees' freedom of association and their right to collective bargaining and is not complicit in restrictions of these freedoms and rights.	Low	There is no restriction on freedom of association and right to collective bargaining.	Not applicable
	5. The project does not involve and is not complicit in any form of forced or compulsory labor.	Low	The project staff, retailers, and vendors are not forced to join the project. Vendors are getting involved in this project by their own choices and motivation.	Not applicable
	6. The project does not employ and is not complicit in any form of child labor.	Low	No child labor is employed. All employees/vendors are adults.	Not applicable
	7. The project does not involve and is not complicit in any form of discrimination based on gender, race, religion, sexual orientation or any another basis.	Low	The project doesn't involve any form of discrimination based on gender, race, and religion as well as sexual orientation.	Not applicable
	8. The project provides workers with a safe and the healthy work environment and is not complicit in exposing workers to unsafe or unhealthy work environments.	Low	The project doesn't involve any unsafe activity and material.	Not applicable
Environmental Protection	<p>Myanmar ratified the following relevant treaties and convention.</p> <p>UN Kyoto Protocol to the United Nations Framework Convention on Climate Change on the 26th of May 2005</p>			

	Convention on Biological Diversity			
	9. The project takes a precautionary approach in regard to environmental challenges and is not complicit in practices contrary to the precautionary principle. This principle can be defined as: "When an activity raises threats of harm to human health or the environment, precautionary measures should be taken even if some cause and effect relationships are not fully established scientifically."	Low	Low- the project activity has a positive impact on the environment. The project reduces the number of trees being cut for firewood and amount of emissions too. All respondents expressed that there was no harm to human health and the environment.	Not applicable
	10. The project does not involve and is not complicit insignificant conversion or degradation of critical natural habitats, including those that are (a) legally protected, (b) officially proposed for protection, (c) identified by authoritative sources for their high conservation value or (d) recognized as protected by traditional local communities	Low	Low- the project activity reduces the firewood consumption which is mainly collected from their family farms. It doesn't affect other protected resources.	Not applicable
Anti Corruption	Myanmar ratified the following relevant convention. UN Convention against Corruption (UNCAC) 11. The project does not involve and is not complicit in corruption.	Low	There was no bias. Everyone has to rights to submit their name and paid the fixed price. Payment is recorded on the receipt.	Not applicable

SECTION C Monitoring plan

C.1 Data and parameters to be monitored

(Include specific information on how the data and parameters that need to be monitored in the selected methodology(ies) or proposed approaches or as per mitigation measures from safeguarding principles assessment or as per feedback from stakeholder consultations would actually be collected during monitoring. Copy this table for each piece of data and parameter.)

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Relevant SDG Indicator	SDG 13: Take urgent action to combat climate change and its impacts
Data / Parameter	$U_{p,y}$
Unit	Percentage
Description	Usage rate for project cookstove in year y , based on adoption rate and drop off rate as per usage surveys
Source of data	Assumption
Value(s) applied	100%
Measurement methods and procedures	Household Surveys
Monitoring frequency	Annually
QA/QC procedures	A representative sample of project cookstove end-users will be selected for follow-up by the monitoring and evaluation team. A combination of household visits and phone calls to households will verify information in the distribution database and determine usage drop-off rates.
Purpose of data	To calculate VERs
Additional comment	A usage parameter is derived for each age group of project cookstove being credited. Project survey sample size 100 households.

Relevant SDG Indicator	SDG 13: Take urgent action to combat climate change and its impacts
Data / Parameter	$N_{p,y}$
Unit	Number of project cookstoves credited (units)
Description	Cookstove in the project database for project scenario p through year y
Source of data	Total Sales Record
Value(s) applied	1821
Measurement methods and procedures	Sale Record Entries
Monitoring frequency	Continuous
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	To calculate VERs
Additional comment	The total sales record is divided based on project scenario to create the project database.

Relevant SDG Indicator	SDG 13: Take urgent action to combat climate change and its impacts
Data / Parameter	DF_n
Unit	Fraction
Description	Discount factor to account for efficiency loss n of project cookstoves
Source of data	Fixed default value from the methodology.
Value(s) applied	0.99 i.e., 1% efficiency loss per year.
Measurement methods and procedures	As per methodology
Monitoring frequency	Annual
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	To calculate VERs
Additional comment	

Relevant SDG Indicator	SDG 13: Take urgent action to combat climate change and its impacts
Data / Parameter	$DF_{p, Stove, y}$
Unit	Fraction
Description	Discount factor to account for usage of baseline cookstove during the year y in project scenario p
Source of data	Project Survey

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Value(s) applied	0.02%
Measurement methods and procedures	Household Surveys
Monitoring frequency	Annual
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	To calculate VERs
Additional comment	The discount factor for baseline-stove use may be determined based on a number of meals cooked using the baseline stove. The required information shall be captured through sample surveys carried out following a random sampling approach for each age-group of the project stove. The minimum number of sample sizes shall be selected following the guidelines provided in section 4.2, option (b) of the POA-DD. The impact of seasonal variation on the use of baseline stove should be considered as part of the monitoring survey.

C.1.1 Other elements of monitoring plan (if applicable)

>>

The monitoring plan is in accordance with "The Gold Standard Simplified Methodology for Efficient Cookstoves".

The methodology is designed to match the project conditions. As described in the above section, fuel-efficient cooking stoves using wood are included as applicable technologies and measures that reduce consumption of non-renewable biomass or other greenhouse emitting fuels.

Monitoring will be conducted according to the prescribed approach in the methodology and as detailed below.

The monitoring methodology is supported by:

- Sales receipts
- Total Sales Record (Project Tracking File)
- Detailed Customer Database,
- Project Database, which is maintained continuously,

Maintenance of a Total Sales Record

The Project Proponent collates and maintains the total sales data in electronic and paper format.

The Total Sales Record will comprise the following data:

- Date of Sale
- Model/type of project technology sold:
- Serial/ID number of the device
- Name and telephone number (if available) of end-users
- Application of device (type of end use: Commercial/Domestic)
- Address/ Location of end-users

The Sales Record information is collected using the following methods:

For the portable fuel-efficient stoves, the local entrepreneurs sell stoves directly to end-users and record sales and user training continuously. This data is then collated into a detailed Total Sales Record that tracks the chain of transactions between the user and the distributors. The data received by the project implementation partners in paper format will be converted and saved electronically for monitoring and analysis purposes. A mechanism, designed jointly between the CME and the implementing partner, is agreed and put in place to accurately track sales, inventories, supply, and purchases for every stove distributed. For assuring accuracy and consistency, the Total Sales Record will be cross-checked with import data, usage and other relevant data.

The names and telephone numbers or name and addresses collected must be commensurate with representative sampling, i.e. the names and addresses or phone numbers (where possible) within sales record shall be large enough so that surveys can be based on representative, randomly selected samples.

Project Database

The project database is derived from the Total Sales Record with project cookstoves differentiated by different project scenarios. The differentiation of the project database into sections is based on the results of the applicable monitoring studies for each project scenario, in order that emission reduction calculations can be conducted appropriately section by section.

SECTION D Duration and crediting period

D.1 Duration of project

D.1.1 Start date of project

>> (Specify start date of the project, in the format of DD/MM/YYYY)

01/05/2016 (sales of stoves)

D.1.2 Expected operational lifetime of project

>> (Specify in years)

21 years, (7 year, renewable crediting period, renewable twice as applied during the time of registration)

D.1 GS Crediting period of the project/activity

Renewable crediting period

D.2.1 Start date of the ongoing GS crediting period

>> (Specify in dd/mm/yyyy)

01/05/2016

D.2.3 End date of the ongoing GS crediting period

>> (Specify in dd/mm/yyyy)

30/04/2023

D.2.3 Total length of the GS crediting periods

>> (Specify the total length of crediting period in years in line with GS4GG Principles & Requirements or relevant activity requirements)

7 years, renewable twice, as applied during registration

SECTION E Stacking of new assets

>> (If project is looking to stack new assets over GSVERs the required information to demonstrate compliance to the relevant methodology, product specification and additionality shall be presented in the new PDD template launched with GS4GG)

N.A.

Appendix 1. Contact information of project participants

Organization name	Soneva Foundation
Registration number with relevant authority	Registered charity in the UK with registration number 1138811
Street/P.O. Box	142 Sukhumvit Rd.
Building	19/F Two Pacific Place
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Country	Thailand
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Contact person	Mr. Arnfinn Oines
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