

TEMPLATE

KEY PROJECT INFORMATION & PROJECT DESIGN DOCUMENT (PDD)

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VERSION v. 1.2

RELATED SUPPORT

- TEMPLATE GUIDE Key Project Information & Project Design Document v.1.2

This document contains the following Sections

Key Project Information

SECTION A - Description of project

 $\underline{\sf SECTION~B}$ - Application of approved Gold Standard Methodology (ies) and/or

demonstration of SDG Contributions

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SECTION D - Summary of Safeguarding Principles and Gender Sensitive Assessment

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Appendix 2 - Contact information of Project participants (mandatory)

Appendix 3 - LUF Additional Information (project specific)

<u>Appendix 3</u> - Summary of Approved Design Changes (project specific)

KEY PROJECT INFORMATION

GS ID of Project	GS11565
Title of Project	Fuel-efficient cookstoves for cocoa-producing communities
Time of First Submission Date	21/02/2022
Date of Design Certification	-
Version number of the PDD	Version 01
Completion date of version	16/05/2022
Project Developer	South Pole Carbon Asset Management Ltd.
Project Representative	South Pole Carbon Asset Management Ltd.
Project Participants and any communities involved	Mondelez Cocoa Life Programme CARE International
Host Country (ies)	Côte d'Ivoire
Activity Requirements applied	☑ Community Services Activities☐ Renewable Energy Activities☐ Land Use and Forestry Activities/Risks & Capacities☐ N/A
Scale of the project activity	☑ Micro scale □ Small Scale □ Large Scale
Other Requirements applied	n/a
Methodology (ies) applied and version number	Simplified Methodology for Efficient Cookstoves (Version 1.1)
Product Requirements applied	☑ GHG Emissions Reduction & Sequestration ☐ Renewable Energy Label ☐ N/A
Project Cycle:	☑ Regular □ Retroactive

Table 1 – Estimated Sustainable Development Contributions

Sustainable Development Goals Targeted	SDG Impact (defined in B.6)	Estimated Annual Average	Units or Products
13 Climate Action (mandatory)	Amount of GHG emissions avoided or sequestered	8,490	VERs
4 Quality Education	Number of employees provided skill development training	20	people
7 Affordable and Clean Energy	Number of beneficiaries	4,000	households

Section A. DESCRIPTION OF PROJECT

A.1. Purpose and general description of project

>> The project activity includes the implementation of 4,000 improved cookstoves ("FA+") over the next three years (2022 to 2024). Project implementation will be led by CARE International. Local promoters will be identified within the project communities and trained on how to build and maintain the fuel-efficient cookstoves.

The project seeks to provide access to fuel efficient firewood cookstoves for cocoaproducing communities by building in-situ multi pot stoves. The project will be implemented in 48 communities (in the district of San Pedro) with a total population of approximately 58,000 people. The FA+ cookstoves will significantly reduce firewood demand for cooking, and greenhouse gas emissions will be reduced. Simultaneously the cookstoves provide co-benefits to users and communities in the form forest conservation, time-savings, and increased cleanliness and convenience.

A.1.1. Eligibility of the project under Gold Standard

Gold Standard general eligibility criteria (3.1.1. in Principles and Requirements)	Eligibility
Types of Project : Eligible projects shall include physical action/implementation on the ground. Pre-identified eligible project types are identified in the Eligibility Principles and Requirements section.	This project includes physical action/ implementation on the ground and it falls into the category of "end-use energy efficiency" which is listed under 3.1.1. (b) in the COMMUNITY SERVICES ACTIVITY REQUIREMENTS Version 1.2.
Location of Project: Projects may be located in any part of the world.	The project is located in Côte d'Ivoire.

Project Area, Project Boundary and

Scale: The Project Area and Project Boundary shall be defined. Projects may be developed at any scale although certain rules, requirements and limitations may apply under specific Activity Requirements, Impact Quantification Methodologies and Products Requirements.

In order to avoid double counting the Project shall not be included in any other voluntary or compliance standards programme unless approved by Gold Standard (for example through dual certification). Also, if the Project Area overlaps with that of another Gold Standard or other voluntary or compliance standard programme of a similar nature, the project shall demonstrate that there is no double counting of impacts at design and performance certification (for example use of similar technology or practices through which the potential arises for double counting or misestimation of impacts amongst projects).

The project is implemented in 48 communities located in the district of San Pedro with a total population of approximately 58,000 people.

The project is not registered with any other voluntary or compliance schemes.

To avoid double counting, the location of each stove will be recorded in the project database. All the information recorded in the database such as the GPS coordinates, names and mobile numbers (if available) can be taken as the unique identification for each stove.

The project area does not overlap with that of another Gold Standard or other voluntary or compliance standard programme of a similar nature.

Host Country Requirements: Projects shall be in compliance with applicable Host Country's legal, environmental, ecological and social regulations.

The project is in compliance with all applicable regulations of the Host Country.

Contact Details: As part of the Project Documentation the Project Developer shall provide (i) name and (ii) contact details of all Project Participants; AND in case of an organisation (iii) the legal registration details and (iv) documentation by the governing jurisdiction that proves that the entity is in good standing (defined as being a legal or other appropriate entity registered in or allowed to operate within the required jurisdiction and with no evidence of insolvency or legal/criminal notices placed against it or any of its Directors). Gold Standard retains the right (at its own discretion) to refuse use of the Standard where reputational concerns are highlighted.

Contact details of all Project Participants are provided in Appendix 2 of this PDD.

Legal Ownership: Full and uncontested legal ownership of any Products that are generated under Gold Standard Certification, (for example carbon credits) shall be demonstrated. Where such ownership is transferred from project beneficiaries this must be demonstrated transparently and with full, prior and informed consent (FPIC). Note that for certain Project types there is a requirement for full and uncontested legal land title/tenure to be demonstrated. These are contained within specific Activity or Product Requirements. All projects shall immediately report to Gold Standard any land title/tenure disputes arising.

Contracts have been signed between all project participants and SPCAM, within which the ownership rights and selling rights of the emission reductions resulting from this project activity are clearly defined.

End users sign a carbon right waiver in order to transfer the carbon rights to SPCAM. This has been discussed during local stakeholder consultations.

Other Rights: As well as legal title and ownership, the Project Developer shall also demonstrate where required uncontested legal rights and/or permissions concerning changes in use of other resources required to service the Project (for example, access rights, water rights etc.). Any known disputes or contested rights must be declared immediately to Gold Standard by the Project Developer and resolved prior to further project implementation in affected areas.

There are no disputes or contested rights during the implementation of the project activity.

Official Development Assistance (ODA)
Declaration: All Project Developers applying for project activities located in a country named by the OECD Development Assistance Committee's ODA recipient list and seeking Gold Standard Certification for carbon credits shall declare the Official Development Assistance (ODA) support. The Project Developer shall follow the GHG Emissions Reduction & Sequestration Product Requirements and submit the declaration at the time of Design Certification.

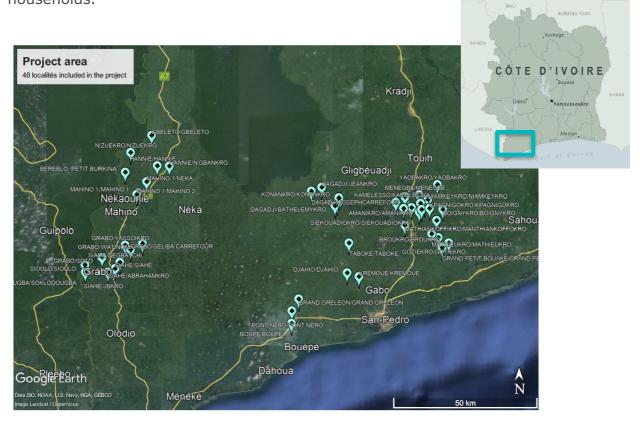
The project does not receive any ODA funding (see ODA declaration form).

A.1.2. Legal ownership of products generated by the project and legal rights to alter use of resources required to service the project

>> SPCAM has the full and uncontested legal ownership of all Products that are generated under this project.

A.2. Location of project

>> The project is implemented in 48 communities ("localités") around San Pedro in Bas Sassandara, Côte d'Ivoire, with a total of approx. 58,000 people living in 8,500 households.



A.3. Technologies and/or measures

>> The current practice is cooking on traditional three stones fires or traditional unimproved stoves. A lot of heat is lost to the surrounding area, hence a lot of firewood is required for cooking. Without the project activity, this would be the continued practice. The efficient firewood cookstoves (project stoves or FA+) on the other hand are more efficient in transferring heat from the fuel to the pot, thus saving firewood compared to the traditional three stone fires. Therefore, by reducing the total amount of firewood required for cooking, the amount of GHG emitted into the atmosphere is reduced.

The project stove "FA+" is a fuel-efficient firewood cookstove locally constructed using clay, straw and metal pieces following the steps described below:

- Large clods in the clay are crushed and all impurities from the clay removed (note: alternatively material from termite hills can be used instead of clay).
- The straw is cut into small pieces of about 5 cm using a machete (note: alternatively sawdust, dry grass or dry banana leaves can be used).
- Gradually water is added to the clay and well mixed and kneaded. Then the straw is added and well mixed into the clay.
- The resulting construction material is covered with a plastic film and water is added once every day for six days.
- Construction of the FA+.









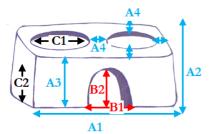




The in-situ multi pot stove has one combustion chamber and space for placing two pots for cooking. Following the Water Boiling Test (WBT) protocol, WBTs have been conducted by an independent consultant and a thermal efficiency of 21.7% was established in the case only one pot is used at the time, and 40.6% in case two pots are used for cooking at the same time.

Technology specifications:

- Design: as promoted by CARE International (dimensions below)
- Type: in-situ two pot stove
- Materials: clay, straw and metal pieces
- Thermal efficiency: 21.7% (for the use of one pot) and 40.6 (for the use of two pots)



Component	Nomenclature	Parameter	Dimension (cm)
Stove dimensions	A1	Length	80
	A2	Width	40
	A3	Height	25
	A4	Frame thickness	10
Fireplace door	B1	Door width	20
	B2	Door height	20
Combustion chamber	C1	Diameter of the pot holes	25
	C2	Height of combustion chamber	15

All materials are available locally and it is expected that households will be able to maintain the stoves for many years. Common issues are cracks in the door, crack in the general frame of the stove and degradation of the combustion chamber. Households will be trained on how to fix and maintain the stoves (if needed with the help of the masons) and the general condition of the stoves will be monitored throughout the project duration.

A.4. Scale of the project

>> Micro-scale project. This project is estimated to generate 8,490 tCO2e per year on average, which is below the 10,000 tCO2e threshold for micro-scale projects. In case the project exceeds the applicable limit, the claimable emission reduction for this project shall be capped at 10,000 tCO2e.

A.5. Funding sources of project

>> No public funding is used for the implementation of this project activity. The ODA declaration form will be provided prior to design certification.

Section B. APPLICATION OF APPROVED GOLD STANDARD METHODOLOGY (IES) AND/OR DEMONSTRATION OF SDG CONTRIBUTIONS

B.1. Reference of approved methodology (ies)

>> The Gold Standard Simplified Methodology for Efficient Cookstoves, Version 1.1

B.2. Applicability of methodology (ies)

>>

#	Eligibility criteria	Conditions to be met	Means of proof	Confirmation
1	Scale	Applicable to micro-scale activities	This project is estimated to generate 8,490 tCO2e per year on average, which is below the 10,000 tCO2e threshold for micro-scale projects. See section A.4.	Yes
2	Project type	Introduction of new wood fired cookstoves that reduce use of non-renewable firewood.	The fuel-efficient "FA+" firewood stove is introduced to reduce the use of non-renewable firewood. See section A.3.	Yes
3	Project proponent	A project proponent implements the microscale activity. The individual households to not act as project proponents.	CARE International is implementing the project activity. The individual households cede the carbon rights to SPCAM.	Yes
4	Baseline fuel consumption	Baseline fuel is only firewood	Only households that use firewood and do not use any other fuel on regular basis will be included in the project.	Yes
5	Baseline stove	Baseline stove is a three stone fire or conventional device without a grate or a chimney.	Only household that use three stove fires or traditional unimproved stoves will be included in the project.	Yes
6	Project stove	Project stove is a single or multi pot portable or in-situ cookstove with specified efficiency of at least 20%.	The FA+ is an in-situ multi pot cookstove with a thermal efficiency of 21.7% for the use of one pot and 40.6 for the use of two pots.	Yes

7	Project boundary	Project boundary can be clearly identified and cookstoves are not included in another voluntary or compliance project.	The project area includes 48 communities ("localités") which can be clearly located using GPS coordinates. All cookstoves will be included in a central database including GPS coordinates of the cookstoves' location. The stoves are not included in any other voluntary or compliance project.	Yes
8	Ownership rights	Project proponent must clearly communicate the entity claiming ownership and sales rights for the emission reductions resulting from the project activity.	End users will sign a carbon right waiver in order to transfer the carbon rights to SPCAM.	
9	Use of baseline cookstoves	Projects can use baseline cookstoves as a backup or auxiliary as long as a mechanism is put into place to encourage the removal of old cookstove.	The use of the baseline cookstoves is tracked by monitoring the parameter DF _{P,stove,y} .	

B.3. Project boundary

>>

Sourc	e	GHGs	Included?	Justification/Explanation
0 0	Source 1: Firewood	CO ₂	Yes	Important source of emissions
Baseline scenario	consumpti	CH ₄	Yes	Important source of emissions
on for cooking	N ₂ O	Yes	Important source of emissions	
0	Source 1: Firewood	CO ₂	Yes	Important source of emissions
Project scenario	consumpti	CH ₄	Yes	Important source of emissions
on for cooking	N ₂ O	Yes	Important source of emissions	

B.4. Establishment and description of baseline scenario

>> A baseline study was conducted by South Pole Carbon Asset Management and Mondelez Cocoa Life teams in September/October 2021.

The majority of residents within the project area were found to exclusively use firewood with three stone fires or conventional devices without a grate or a chimney. Prior to the installation of the FA⁺ the local artisans will check the eligibility of each individual household. Only households that use firewood and do not use any other fuel on regular basis are eligible to receive an FA⁺ under this project activity.

B.5. Demonstration of additionality

Use this table for Automatic Additionality Only - delete if N/A

Specify the methodology, activity requirement or product requirement that establishes deemed additionality for the proposed project (including the version number and the specific paragraph, if applicable).

Gold Standard for the Global Goals Community Services Activity Requirements, Version 1.2, Published October 2019

- 4.1.9 Projects that meet any of the following criteria are considered as deemed additional and therefore are not required to prove Financial Additionality at the time of Design Certification:
- (a) Positive list (Annex B of this document)
- (b) Projects located in LDC, SIDS, LLDC
- (c) Microscale projects

Describe how the proposed project meets the criteria for deemed additionality.

The project activity meets criterion (a)
Positive list. According to Annex B
Positive List of the "Community Services
Activity Requirements":

1.1.3 Project activities solely composed of isolated units where the users of the technology/measure are households or communities or institutions and where each unit results in <= 600 MWh of energy savings per year or <= 600 tonnes of emission reductions per year.

This project activity is solely composed of fuel-efficient stoves, the users are households from cocoa-producing

	communities, and each stove results in several tonnes of emission reductions per year, which is far less than 600 tonnes per year.
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B.5.1. Prior Consideration

>> The LSC was conducted before the start of this project activity (i.e. this project classifies for the regular project cycle) and there is no need to demonstrate prior consideration.

B.5.2. Ongoing Financial Need

>> n/a (only relevant at design certification renewal)

B.6. Sustainable Development Goals (SDG) outcomes

Relevant Target/Indicator for each of the three SDGs

Sustainable Development	Most relevant SDG Target	SDG Impact	
Goals Targeted		Indicator (Proposed or SDG Indicator)	
13 Climate Action (mandatory)	Target 13.2	Amount of GHG emissions avoided or sequestered (GS VERs)	
4 Quality Education	Target 4.4	Number of employees provided skill development training (people)	
7 Affordable and Clean Energy	Target 7.1	Number of beneficiaries (households)	

B.6.1. Explanation of methodological choices/approaches for estimating the SDG Impact

>> n/a

B.6.2. Data and parameters fixed ex ante

SDG13

Data/parameter	EF _b ,fuel,CO2
Unit	tCO ₂ /tonne of firewood
Description	CO ₂ emission factor arising from 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	Default value as per applied methodology
Purpose of data	Calculation of emissions reductions
Additional comment	-

Data/parameter	EF _b ,fuel,non-CO2
Unit	tCO ₂ /tonne of firewood
Description	Non-CO ₂ emission factor arising from use of firewood in baseline scenario
Source of data	IPCC default values, table 2.9 of chapter 2 of Vol.2, 2006 IPCC Guidelines for National Greenhouse Gas Inventories
Value(s) applied	0.53
Choice of data or Measurement methods and procedures	Default value as per applied methodology
Purpose of data	Calculation of emissions reductions
Additional comment	-

Data/parameter	f _{NRB,y}
Unit	Fractional non renewability
Description	Non-renewability status of wood fuel during year y
Source of data	Default NRB value provided by the CDM executive board https://cdm.unfccc.int/Panels/ssc wg/meetings/037/ssc 37 an14.pdf
Value(s) applied	0.93

Choice of data or Measurement methods and procedures	At the time of validation, an updated value of f_{NRB} shall be calculated and used for the ER calculation.
Purpose of data	Calculation of emissions reductions
Additional comment	The calculated value will be fixed during the 1st crediting period.

Data/parameter	ηь
Unit	Fraction
Description	Efficiency of the cookstoves being used in the baseline scenario
Source of data	Gold Standard Simplified Methodology for Efficient Cookstove, ver. 1.1
Value(s) applied	10%
Choice of data or Measurement methods and procedures	Default value as per the applied methodology: "A default value of 10% shall be used if the replaced cookstove is a three stone fire, or a conventional device without a grate or a chimney, i.e. with no improved combustion air supply or flue gas ventilation."
Purpose of data	Calculation of emissions reductions
Additional comment	-

Data/parameter	ηρ
Unit	Fraction
Description	Efficiency of the cookstoves being used in the project scenario
Source of data	Determined as per Section 4.3 of the applied methodology
Value(s) applied	21.7% for the use of one pot 40.6% for the use of two pots
Choice of data or Measurement methods and procedures	Value applied for project stove ("FA+"). WBTs have been conducted by independent consultant. The value of 21.7% refers to the situation when only one pot is used, and 40.6% refers to the situation when two pots are used at the same time. For ex ante ER estimation, assuming usage rate of two pots at the same time is 30%, then the weighted average efficiency of project cookstove $(\eta_{P,y})$ can be calculated.
Purpose of data	Calculation of emissions reductions
Additional comment	-

Data/parameter	Вь,у		
Unit	Tonnes of firewood per household per year		
Description	Firewood consumption for cooking in the baseline		
Source of data	Baseline survey		
Value(s) applied	6.455		
Choice of data or Measurement methods and procedures	A survey was carried out amongst randomly selected target end users to determine the firewood consumption in the baseline scenario. Following the guidance in the methodology, the minimum sample size of 100 was chosen. In total, the baseline firewood consumption was determined from data of 125 households.		
Purpose of data	Calculation of emissions reductions		
Additional comment	-		

B.6.3. Ex ante estimation of SDG Impact

>> The emissions reductions are calculated as follows:

SDG 13

(default value for wood fuel 1.747 tCO₂/ton of wood)

EF_{b,fuel,non-CO2} Non-CO₂ emission factor of firewood that is substituted or reduced

(default value for wood fuel 0.53 tCO₂/ton of wood)

DF_{b,stove,y} Usage of baseline cookstoves during the year y (fraction) in project scenario

(conservative estimate of 30% for ex ante ER estimation)

X y - 1

y Year of the crediting period

		Stoves in use				
Year	# Stoves installed	Year 1	Year 2	Year 3	Year 4	Year 5
1	1,300	650*	1,040	780	520	260
2	1,500		750*	1,200	900	600
3	1,200			600*	960	720
4	0				0	0
5	0		_			0
	Stoves in use	650	1,790	2,580	2,380	1,580

^{*}Construction of stoves throughout the year. Thus, on average only in use for 50% in the first year.

Quantity of firewood that is saved (P_y) is estimated as follows:

$$P_y = B_{b,y} * (1-\eta_b/\eta_{p,y})....(2)$$

Where:

 $B_{b,y}$ Quantity of firewood consumed in baseline scenario during year y (6.455 tonnes per household per year)

 $\eta_{p,y}$ Efficiency of project cookstove in year y (fraction)

 η_b Efficiency of the baseline cookstove being replaced (fraction). A default value of 10% is applied as the replaced cookstove is a three-stone fire or a conventional stove without grate or chimney.

Determination of quantity of fire wood consumed in the baseline $(B_{b,v})$:

Option (b) of section 4.2 of the methodology was used to determine the average annual consumption of firewood per household (tonnes/year). A survey was carried out amongst randomly selected target end users to determine the firewood consumption in the baseline scenario. Following the guidance in the methodology, the minimum sample size of 100 was chosen (Project target population > 1000 Minimum sample size 100). In total, the baseline firewood consumption was determined from data of 125 households. And the average annual consumption of firewood per household in the baseline is 6.455 tonnes per household per year.

Determination of project cookstove efficiency:

$$\eta_{p,y} = \eta_p * (DF_\eta)^{y-1} * 0.94...$$
 (3)

Where:	
$\eta_{p,y}$	Efficiency of project cookstove in year y (fraction)
η_p	Efficiency of project cookstove (fraction) determined at the start of the project
	(21.7% for the use of one pot and 40.6% for the use of two pots)
DF_η	Discount factor to account for efficiency loss of project cookstove per year of
	operation (fraction). A default value of 0.99 is applied.
0.94	Adjustment factor to account for uncertainty related to project cookstove
	efficiency test

Determination of leakage:

The net emission reductions shall be discounted by a factor of 0.95 to account for leakages related to non-renewable biomass saved by the project activity.

Non-material overlap is identified for the project and a 5% leakage discount rate is conservative for the project.

SDG 7

Direct measurement as per the cookstove database (cumulative).

SDG 4

Direct measurement as per the training records (cumulative).

B.6.4. Summary of ex ante estimates of each SDG Impact

SDG 13

Year	Baseline estimate	Project estimate	Net benefit
Year 1	0	3,675	3,675
Year 2	0	10,000	10,000 (capped)
Year 3	0	10,000	10,000 (capped)
Year 4	0	10,000	10,000 (capped)
Year 5	0	8,777	8,777

Total	0	42,452	42,452
Total number of crediting years	5		
Annual average over the crediting period	0	8,490	8,490

SDG 7

Year	Baseline estimate	Project estimate	Net benefit
Year 1	0	1,300	1,300
Year 2	0	1,500	1,500
Year 3	0	1,200	1,200
Year 4	0	0	0
Year 5	0	0	0
Total	0	4,000	4,000

Total number of crediting years	5		
Annual average over the crediting period	0	800	800

SDG 4

Year	Baseline estimate	Project estimate	Net benefit
Year 1	0	20	20
Year 2	0	0	0
Year 3	0	0	0
Year 4	0	0	0
Year 5	0	0	0

Total	0	20	20
Total number of crediting years	5		
Annual average over the crediting period	0	4	4

B.7. Monitoring plan

B.7.1. Data and parameters to be monitored

SDG 13

Data / Parameter	U _{p,y}
Unit	Percentage
Description	Usage rate in project scenario p during year y
Source of data	Monitoring survey
Value(s) applied	100% (Y1), 80% (Y2), 60% (Y3), 40% (Y2), 20% (Y1)
Measurement methods and procedures	Household survey
Monitoring frequency	At least annually
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	Calculation of emissions reductions
Additional comment	This parameter is derived for each age group of project cookstove being credited.

Data / Parameter	$N_{p,y}$
Unit	Number of project cookstoves credited (units)
Description	Cookstoves in the project database
Source of data	Cookstove database
Value(s) applied	4,000
Measurement methods and procedures	Regular updates to the cookstove database

Monitoring frequency	At least annually
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	Calculation of emissions reductions
Additional comment	The project database is consulted to determine the distributed units per project activity.

Data / Parameter	DF _{p,stove,y}
Unit	Fraction
Description	Discount factor to account for the baseline stove use in project scenario p during the year y
Source of data	Monitoring survey
Value(s) applied	0.30 (conservative estimate)
Measurement methods and procedures	Household survey
Monitoring frequency	At least annually
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	Calculation of emissions reductions
Additional comment	The discount factor for baseline-stove use will be determined based on 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 project cookstove sample size of each age-group should be in line with the guidelines provided in section 4.2 option b of the applied methodology.

Data / Parameter	DFn
Unit	Fraction
Description	Discount factor to account for efficiency loss of project cookstoves
Source of data	Gold Standard Simplified Methodology for Efficient Cookstove, ver. 1.1
Value(s) applied	Default value: 0.99, i.e. 1% efficiency loss per year

Measurement methods and procedures	As per applied methodology
Monitoring frequency	At least annually
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	Calculation of emissions reductions
Additional comment	This default can be used if stoves are found in good condition during annual surveys. During annual surveys, if it is found that project stoves are not in working conditions, the proportionate population of project cook stoves should be considered as non-functional in the project database until these cookstoves are maintained or replaced with new cookstove.

Data / Parameter	Usage pattern
Unit	Fraction
Description	Usage of both holes at the same time
Source of data	Monitoring survey
Value(s) applied	30%
Measurement methods and procedures	Household survey
Monitoring frequency	At least annually
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	Calculation of emissions reductions
Additional comment	To avoid any confusion: the ex-ante assumption is that stove owners will only place one pot on the FA+ at 70% of the time, while they will place two pots at 30% of the time. The FA+ is an in-situ two pot stove.

SDG 7

Data / Parameter	#Beneficiaries
Unit	Number of project cookstoves credited (units)
Description	Cookstoves in the project database
Source of data	Cookstove database
Value(s) applied	4,000

Measurement methods and procedures	Regular updates to the cookstove database
Monitoring frequency	At least annually
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	Calculation of contribution on SDG 7
Additional comment	-

SDG 4

Data / Parameter	#Promoters
Unit	Number of promoters
Description	Trained FA+ promoters
Source of data	Training database
Value(s) applied	20
Measurement methods and procedures	Regular updates to the training database
Monitoring frequency	At least annually
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	Calculation of contribution on SDG 4
Additional comment	-

Monitoring Plan for Mitigation Measures

Data / Parameter	Gender equality
Unit	Fraction and CFA
Description	Check equal opportunity and equal compensation for FA+ promoters
Source of data	Payment records
Value(s) applied	-
Measurement methods and procedures	Calculation of 1) percentage of female/male FA+ promoters, and 2) average annual compensation disaggregated by gender
Monitoring frequency	At least annually
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	Mitigation measures monitoring for Principle 2

	Corrective action shall be taken if less than 25% of the
Additional comment	FA+ promoters are female and if there is a significant
	difference in the annual compensation based on gender

Data / Parameter	Exposure to smoke		
Unit	Fraction		
Description	Check fireplaces are replaced at same location and that households do not shift from cooking outside to inside		
Source of data	Monitoring survey		
Value(s) applied	-		
Measurement methods and procedures	Household survey		
Monitoring frequency	At least annually		
QA/QC procedures	Transparent data analysis and reporting		
Purpose of data	Mitigation measures monitoring for Principle 3		
Additional comment	Corrective action shall be taken if any of the newly installed FA+ led to a shift from primarily cooking outside to inside		

Data / Parameter	Promoters' services		
Unit	Fraction		
Description	Check if promoters deliver services in line with project design (e.g. no payments collected by promoters against constructing an improved cookstove)		
Source of data	Monitoring survey		
Value(s) applied	-		
Measurement methods and procedures	Household survey		
Monitoring frequency	At least annually		
QA/QC procedures	Transparent data analysis and reporting		
Purpose of data	Mitigation measures monitoring for Principle 5		
Additional comment	Corrective action shall be taken if any household reports that the promoters did not deliver the training and installation services in line with the project design		

Data / Parameter	Soil erosion	
Unit	-	
Description	Check if there are any reports of erosion caused by sourcing the clay for the stove construction	
Source of data	Monitoring survey	
Value(s) applied	-	
Measurement methods and procedures	Household survey	
Monitoring frequency	At least annually	
QA/QC procedures	Transparent data analysis and reporting	
Purpose of data	Mitigation measures monitoring for Principle 8.2 and 9.2	
Additional comment	Corrective action shall be taken if any household reports that sourcing the clay led to erosion.	

Data / Parameter	Pollutants		
Unit	-		
Description	Check that stoves are not painted		
Source of data	Monitoring survey		
Value(s) applied	-		
Measurement methods and procedures	Household survey		
Monitoring frequency	At least annually		
QA/QC procedures	Transparent data analysis and reporting		
Purpose of data	Mitigation measures monitoring for Principle 9.4		
Additional comment	Corrective action shall be taken if any of the stoves are found to be painted.		

B.7.2. Sampling plan

CARE International, Mondelez Cocoa Life and South Pole Carbon Asset Management Ltd. will jointly be responsible for implementation and monitoring the project. Project implementation includes the training of FA+ promoters, registering the implemented stoves and monitoring activities as per the GS requirements.

After construction of the FA+, the promoter will fill a form capturing basic information such as location and contacts of the stove owner. The form will also include a waiver clause of the rights to the emissions reductions which will be signed by the stove owner.

A database will be created to store this information ("stove database"). The stove database enables the tracking of stoves back to the household level, and will be used for drawing random samples for annual monitoring surveys. The database also provides information about the total number of stoves sold at the end of each monitoring period in order to establish $N_{P,Y}$ and #Beneficiaries.

At least annually a monitoring survey will be conducted with randomly selected households for each age group. The survey results will be used to establish $U_{p,y}$ and $DF_{p,stove,y}$ (further information below).

South Pole Carbon Asset Management Ltd. will oversee ex-post monitoring activities and provide guidance and training to the actual parties responsible for carrying out the monitoring activities. The training will ensure that correct procedures are followed and that monitoring meets the requirements of the methodology.

B.7.3. Other elements of monitoring plan

Refer to section B.7.2.

Section C. DURATION AND CREDITING PERIOD

C.1. Duration of project

C.1.1. Start date of project

>> 01/06/2022 – installation of first FA+ cookstove (expected date)

C.1.2. Expected operational lifetime of project

 $>> 3 \times 5 = 15 \text{ years}$

C.2. Crediting period of project

C.2.1. Start date of crediting period

>> 01/07/2022

C.2.2. Total length of crediting period

>> 5 years

Section D. SUMMARY OF SAFEGUARDING PRINCIPLES AND GENDER SENSITIVE ASSESSMENT

D.1. Safeguarding Principles that will be monitored

A completed Safeguarding Principles Assessment is in <u>Appendix 1</u>, ongoing monitoring is summarised below.

Principles	Mitigation Measures added to the Monitoring Plan		
Principle 2	Check equal opportunity and equal compensation for FA+ promoters.		
Principle 3	Check that fireplaces are replaced at the same locatio (i.e. an outside fireplace shall be replaced with a FA+ that is constructed outside).		
Principle 5	Check if promoters deliver services in line with project design.		
Principle 8.2 and principle 9.2	Check if there are any reports of erosion caused by sourcing the clay for the stove construction.		
Principle 9.4	Check that stoves are not painted.		

D.2. Assessment that project complies with GS4GG Gender Sensitive requirements

Question 1 - Explain how the project
reflects the key issues and requirements
of Gender Sensitive design and
implementation as outlined in the
Gender Policy?

The project reflects the key gender issues and requirements of Gender Sensitive design and implementation. On the design side, the project aims to avail households with fuel-efficient cookstoves. Thus less firewood will be

consumed, which reduces the time needed to collect firewood. In Côte d'Ivoire the kitchen chores (including sourcing fuel) are handled by women. Since the project aims to reduce the amount of firewood that needs to be collected, the primary beneficiaries will be the women.

On the implementation side, the project will train and deploy both women and men for the construction of the fuel-efficient cookstoves. All project participants are committed to create a conductive environment where women and men have equal opportunities to benefit from employment and skill development opportunities. This mode of project development and implementation will help address gender equality issues.

Question 2 - Explain how the project aligns with existing country policies, strategies and best practices

The project aligns with existing country policies, laws, strategies and best practices of the host country. The project will be implemented in households of cocoa-producing communities and women are the primary beneficiary. By using fuel-efficient cookstoves installed as part of the project activity, women spend less time on collecting firewood. The time saved can be used for other productive activities such as education, paid work, childcare.

Question 3 - Is an Expert required for the Gender Safeguarding Principles & Requirements?	All the gender safeguarding principles and requirements are carefully assessed in Appendix 1 of this PDD, and an expert is not required based on the outcome of the assessment.
Question 4 - Is an Expert required to assist with Gender issues at the Stakeholder Consultation?	The project activity does not claim to follow the 'Gender Responsive' approach, and therefore is not required to contract an expert to assist with gender issues as per the Gender Equality Requirements & Guidelines. The local stakeholder consultation included interactions with potential beneficiaries including both women and men and their feedback were recorded and considered appropriately.

Section E. SUMMARY OF LOCAL STAKEHOLDER CONSULTATION

The below is a summary of the 2 step GS4GG Consultation for monitoring purposes. Please refer to the separate Stakeholder Consultation Report for a complete report on the initial consultation and stakeholder feedback round.

E.1. Summary of stakeholder mitigation measures

>> The LSC confirmed that the target communities are very positive about the proposed project activity. No issues were brought up by local stakeholders that would require targeted mitigation measures.

E.2. Final continuous input / grievance mechanism

	Method Chosen (include all known details e.g. location of book, phone, number, identity of mediator)	Justification of Choice (best practice)
Telephone access	Main mechanism: CARE	CARE Côte d'Ivoire will
(optional)	complaints and accountability	systematically collect and record

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	number: 0759709375	any inputs provided.
Continuous Input / Grievance Expression Process Book (mandatory)	Feedback boxes to be made available in each community for written comments.	Feedback boxes instead of process book to ensure confidentiality of the inputs/grievance. In case CARE's complaints and accountability line does not work.
Internet/email access (optional)	South Pole: info@southpole.com	In case, CARE support line does not work, and feedback boxes are not in place.
GS Contact (mandatory)	help@goldstandard.org	As per GS requirements. In case feedback not addressed by the project team.
Nominated Independent Mediator (optional)	Not foreseen.	
Other	Not foreseen.	

APPENDIX 1 - SAFEGUARDING PRINCIPLES ASSESSMENT

Complete the Assessment below and copy all Mitigation Measures for each Principle into <u>SECTION D</u> above. Please refer to the instructions in the <u>Guide to Completing</u> this Form below.

Assessment Questions/ Requirements	Justification of Relevance (Yes/potentially/no)	How Project will achieve Requirements through design, management or risk mitigation.	Mitigation Measures added to the Monitoring Plan (if required)
Principle 1. Human Rights			
 The Project Developer and the Project shall respect internationally proclaimed human rights and shall not be complicit in violence or human rights abuses of any kind as defined in the Universal Declaration of Human Rights The Project shall not discriminate with regards to participation and inclusion 	No	All residents within the 48 communities will have an equal chance to get a FA+ installed as long as they fulfil the eligibility criteria (i.e. daily use of firewood for cooking).	n/a
Principle 2. Gender Equality			

2.	The Project shall not directly or indirectly lead to/contribute to adverse impacts on gender equality and/or the situation of women Projects shall apply the principles of nondiscrimination, equal treatment, and equal pay for equal work The Project shall refer to the country's national gender strategy or equivalent national commitment to aid in assessing gender risks (where required) Summary of opinions and recommendations of an Expert Stakeholder(s)	Potentially	Overall, the FA+ mainly benefit women who are in charge of cooking and collecting firewood. However, the project also needs to ensure that women and men have equal opportunity to become a FA+ promoter.	Check equal opportunity and equal compensation for FA+ promoters.
Princ	. ,	th, Safety and Working Cond	itions	
1.	The Project shall avoid	Potentially	If new stoves are constructed	Check that fireplaces are
1.	community exposure to increased health risks	. Joseph Janes Jan	inside a house and replace old stoves that were used	replaced at the same location (i.e. an outside fireplace shall
	and shall not adversely		outside, the exposure to	

affect the health of the workers and the community Principle 4.1 Sites of Cultura	al and Historical Heritage	harmful air pollution is increased.	be replaced with a FA+ that is constructed outside).
Does the Project Area include sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture?	No	The project does not include and sites of cultural or historical heritage. Cooking on a three stone fire cannot be seen as a cultural practice that needs to be protected.	n/a
>>			
Principle 4.2 Forced Eviction and Displacement			
Does the Project require or cause the physical or economic relocation of peoples (temporary or permanent, full or partial)?	No	The project does not require or cause physical or economic relocation of people.	n/a
>>			
Principle 4.3 Land Tenure and Other Rights			
Does the Project require any change, or have any uncertainties related to land tenure arrangements and/or	No	The project does not require any change to land tenure arrangements, access rights,	n/a

land	ess rights, usage rights or ownership?		usage rights or land ownership.	
>>				
Prin	ciple 5. Corruption			
1	. The Project shall not involve, be complicit in or inadvertently contribute to or reinforce corruption or corrupt Projects	Potentially	The project does not involve any significant potential to contribute to or reinforce corruption, except for beneficiaries to pay for services by the promoters that they should have received for free.	Check if promoters deliver services for free (in line with project design) to ensure promoters do not collect payments for providing training and support the construction of FA+ stoves.
Prin	ciple 6.1 Labour Rights			
1.	The Project Developer shall ensure that all employment is in compliance with national labour occupational health and safety laws and with the principles and standards embodied in the ILO fundamental conventions	No		n/a

2.	Workers shall be able to	le to	
	establish and join labour	abour	
	organisations		
3.	Working agreements	:S	
	with all individual		
	workers shall be		
	documented and		
	implemented and		
	include:		
a)) Working hours (must		
	not exceed 48 hours		
	per week on a regular	Jular	
	basis), AND		
b)	,		
c)	•		
	include provision for		
	payment of overtime),	me),	
٦٠,	AND	la la	
d)		UI	
0,	insurance, AND		
e)) Modalities on termination of the		
	contract with provision	TSIOH	
	for voluntary		
	resignation by		
	employee, AND		

	f) Provision for annual leave of not less than			
	10 days per year, not including sick and			
	casual leave.			
4.	No child labour is			
	allowed (Exceptions for			
	children working on their			
	families' property			
	requires an Expert			
	Stakeholder opinion)			
5.	The Project Developer			
	shall ensure the use of			
	appropriate equipment,			
	training of workers,			
	documentation and			
	reporting of accidents			
	and incidents, and			
	emergency			
	preparedness and			
	response measures			
Prir	Principle 6.2 Negative Economic Consequences			
1.	Does the project cause	No	The baseline survey revealed	n/a
	negative economic		that the vast majority of	
	consequences during		households collect their	
	and after project		firewood by their own. Thus,	
	implementation?		there is no evidence of	

>> Principle 7.1 Emissions		firewood traders that would be negatively impacted if the demand for firewood is reduced.	
Will the Project increase greenhouse gas emissions over the Baseline Scenario?	No	The project reduces the emissions by introducing fuel efficient cookstoves. Thus, the project will decrease the GHG emissions.	n/a
Principle 7.2 Energy Supply			
Will the Project use energy from a local grid or power supply (i.e., not connected to a national or regional grid) or fuel resource (such as wood, biomass) that provides for other local users?	No	The project reduces the demand for firewood and will therefore not have any negative impacts on energy supply for other local users.	n/a
>>			
Principle 8.1 Impact on Natu	Principle 8.1 Impact on Natural Water Patterns/Flows		
Will the Project affect the natural or pre-existing pattern of watercourses, ground-water and/or the watershed(s) such as high seasonal flow	No	The project does not affect the pattern of watercourses, groundwater and/or watersheds.	n/a

variability, flooding potential, lack of aquatic connectivity or water scarcity?	Water Dady Tratability		
Principle 8.2 Erosion and/or Could the Project directly or	Potentially	The project might lead to	Check if there are any reports
indirectly cause additional erosion and/or water body instability or disrupt the natural pattern of erosion?	roccinally	localized erosion at the places where clay is sourced.	of erosion caused by sourcing the clay for the stove construction.
>>			
Principle 9.1 Landscape Mod	dification and Soil		
Does the Project involve the use of land and soil for production of crops or other products?	No	The project does not involve the use of land and soil.	n/a
>>			
Principle 9.2 Vulnerability to	Natural Disaster		
Will the Project be susceptible to or lead to increased vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding,	Potentially	The project might lead to localized erosion at the places where clay is sourced.	Check if there are any reports of erosion caused by sourcing the clay for the stove construction.

drought or other extreme climatic conditions?			
>>			
Principle 9.3 Genetic Resource	ces		
Could the Project be negatively impacted by or involve genetically modified organisms or GMOs (e.g., contamination, collection and/or harvesting, commercial development, or take place in facilities or farms that include GMOs in their processes and production)?	No	The project does not involve and is not impacted by GMOs.	n/a
>>			
Principle 9.4 Release of pollu	tants		
Could the Project potentially result in the release of pollutants to the environment?	Potentially	The stoves are constructed from locally available materials such as clay, straw and metal pieces and will not release any pollutants to the environment. The stoves are not painted.	Check that stoves are not painted.

Principle 9.5 Hazardous and	Principle 9.5 Hazardous and Non-hazardous Waste		
Will the Project involve the manufacture, trade, release, and/ or use of hazardous and non-hazardous chemicals and/or materials?	No	The stoves are constructed from locally available materials such as clay, straw and metal pieces and will not generate any meaningful	n/a
>>		quantities of waste.	
Principle 9.6 Pesticides & Fer	rtilisers		
Will the Project involve the application of pesticides and/or fertilisers?	No	The project does not involve the application of pesticides and/or fertilizers.	n/a
>>			
Principle 9.7 Harvesting of F	Principle 9.7 Harvesting of Forests		
Will the Project involve the harvesting of forests?	No	The project does not involve the harvesting of forests.	n/a
>>			
Principle 9.8 Food			
Does the Project modify the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives?	No	The project does not modify the quantity or nutritional quality of food available.	n/a

>>			
Principle 9.9 Animal husband	dry		
Will the Project involve animal husbandry?	No	The project does not involve animal husbandry.	n/a
>>			
Principle 9.10 High Conserva	ation Value Areas and Critica	l Habitats	
Does the Project physically affect or alter largely intact or High Conservation Value (HCV) ecosystems, critical habitats, landscapes, key biodiversity areas or sites identified?	No	The construction of fuel efficient cookstoves does not affect or alter HCV ecosystems.	n/a
>>			
Principle 9.11 Endangered S	pecies		
Are there any endangered species identified as potentially being present within the Project boundary (including those that may route through the area)? AND/OR	No	The construction of fuel efficient cookstoves does not change the impact of cooking on endangered species.	n/a

Does the Project potentially impact other areas where endangered species may be present through transboundary affects?		
>>		

APPENDIX 2- CONTACT INFORMATION OF PROJECT PARTICIPANTS

Organization name	South Pole Carbon Asset Management Ltd.
Registration number with relevant authority	
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Registration number with relevant authority	
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Contact person	Christine Montenegro McGrath	
Title Chief Impact & Sustainability Officer		
Salutation		
Last name		
Middle name		
First name		
Department		
Mobile		
Direct tel.		
Personal e-mail		

Organization name	CARE International Côte d'Ivoire
Registration number with relevant authority	
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Contact person	Guillaume Aguettant
Title	Country Director Côte d'Ivoire
Salutation	
Last name	
Middle name	

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First name	
Department	
Mobile	
Direct tel.	
Personal e-mail	

APPENDIX 3-LUF ADDITIONAL INFORMATION

n/a

APPENDIX 4-SUMMARY OF APPROVED DESIGN CHANGES

Please refer to Annex A of <u>Principles and Requirements</u> for more information on procedures governing Design Changes

Revision History

Version	Date	Remarks
1.2	14 October 2020	Hyperlinked section summary to enable quick access to key sections Improved clarity on Key Project Information Inclusion criteria table added Gender sensitive requirements added Prior consideration (1 yr rule) and Ongoing Financial Need added Safeguard Principles Assessment as annex and a new section to include applicable safeguards for clarity Improved Clarity on SDG contribution/SDG Impact term used throughout Clarity on Stakeholder Consultation information required Provision of an accompanying Guide to help the user understand detailed rules and requirements
1.1	24 August 2017	Updated to include section A.8 on 'gender sensitive' requirements
1.0	10 July 2017	Initial adoption