



**Gold Standard**<sup>®</sup>  
for the Global Goals

TEMPLATE

# MONITORING REPORT

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RELATED SUPPORT - **TEMPLATE GUIDE Monitoring Report v. 1.1**

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*Climate Security and Sustainable Development*

## KEY PROJECT INFORMATION

### Programme of Activity Information – (delete below table if N/A)

<b>GS ID of Programme</b>	GS1340
<b>Title of Programme</b>	Efficient cookstoves in Burkina Faso (PoA)
<b>Version of POA-DD applicable to this monitoring report</b>	4
<b>Name and GS ID of fully Validated CPA/VPA's (i.e. non compliance check)</b>	<ul style="list-style-type: none"> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-01 - tiipaalga F3PA cookstoves in Bam and Loroum (GS2456)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-02 - tiipaalga F3PA cookstoves in Bam and Loroum (GS3516)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-03 - tiipaalga F3PA cookstoves in Bam and Loroum (GS3517)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-04 - tiipaalga F3PA cookstoves in Bam and Loroum (GS3518)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-05 - tiipaalga F3PA cookstoves in Bam and Loroum (GS3519)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-06 - tiipaalga F3PA cookstoves in Bam and Loroum (GS3520)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-07 - tiipaalga F3PA cookstoves in Bam and Loroum (GS3521)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-08 - tiipaalga F3PA cookstoves in Bam and Loroum (GS3522)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-09 - tiipaalga F3PA cookstoves in Bam and Loroum (GS3523)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-10 - tiipaalga F3PA cookstoves in Bam and Loroum (GS3524)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-11- Tiipaalga – F3PA cookstoves in Kourwéogo (GS6152)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-12- Tiipaalga – F3PA cookstoves in Kourwéogo (GS6419)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-13- Tiipaalga – F3PA cookstoves in Kourwéogo (GS6420)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-14 – Improved cookstove F3PA project in Nahouri (GS10778)</li> </ul>

	<ul style="list-style-type: none"> <li>- GS1340 Efficient cookstoves in Burkina Faso - VPA-15 – Improved cookstove F3PA project in Nahouri (GS10779)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso - VPA-16 – Improved cookstove F3PA project in Nahouri (GS10780)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso - VPA-17 – Improved cookstove F3PA project in Nahouri (GS10781)</li> </ul>
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### Key Project Information

<b>GS ID (s) of Project (s)</b>	<ul style="list-style-type: none"> <li>- GS10778 (VPA-14)</li> <li>- GS10779 (VPA-15)</li> <li>- GS10780 (VPA-16)</li> <li>- GS10781 (VPA-17)</li> </ul>
<b>Title of the project (s) covered by monitoring report</b>	<ul style="list-style-type: none"> <li>- GS1340 Efficient cookstoves in Burkina Faso - VPA-14 – Improved cookstove F3PA project in Nahouri (GS10778)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso - VPA-15 – Improved cookstove F3PA project in Nahouri (GS10779)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso - VPA-16 – Improved cookstove F3PA project in Nahouri (GS10780)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso - VPA-17 – Improved cookstove F3PA project in Nahouri (GS10781)</li> </ul>
<b>Version number of the PDD/VPA-DD (s) applicable to this monitoring report</b>	8
<b>Version number of the monitoring report</b>	3
<b>Completion date of the monitoring report</b>	24/09/2021
<b>Date of project design certification</b>	26/03/2021
<b>Date of Last Annual Report</b>	N.A.
<b>Monitoring period number</b>	1 <sup>st</sup> monitoring period
<b>Duration of this monitoring period</b>	GS10778 (VPA-14): 29/02/2020-31/12/2020 GS10779 (VPA-15): 03/03/2020-31/12/2020 GS10780 (VPA-16): 05/03/2020-31/12/2020 GS10781 (VPA-17): 10/03/2020-31/12/2020
<b>Project Representative</b>	Association tiipaalga
<b>Host Country</b>	Burkina Faso

<b>Activity Requirements applied</b>	<input checked="" type="checkbox"/> Community Services Activities <input type="checkbox"/> Renewable Energy Activities <input type="checkbox"/> Land Use and Forestry Activities/Risks & Capacities <input type="checkbox"/> N/A
<b>Methodology (ies) applied and version number</b>	Gold Standard Simplified Methodology for Efficient Cookstoves, February 2013
<b>Product Requirements applied</b>	<input checked="" type="checkbox"/> GHG Emissions Reduction & Sequestration <input type="checkbox"/> Renewable Energy Label <input type="checkbox"/> N/A

**Table 1 - Sustainable Development Contributions Achieved**

Sustainable Development Goals Targeted	SDG Impact	Amount Achieved	Units/ Products
SDG 13	Emission reductions	VPA 14: 9,324 VPA 15: 9,156 VPA 16: 9,262 VPA 17: 2,344  Total : 30,086	VERs
SDG 1	Parameter #1: Number of leader women (Monitrice endogène) who benefit from microcredit	Parameter #1: 0	Number
	Parameter #2: total amount in FCFA or € of benefit generated by Income Generating Activities which are managed by the leader women (Monitrice endogène) and funded by the microcredit scheme	Parameter #2: 0€	€ or FCFA

SDG 1	Total estimated amount saved by stove users on wood fuel purchase for the group of VPA's	39,496€	€
SDG 3	Proportion of households perceiving:		Percentage
	- less often smoke levels	100%	
	- incidence of coughing	100%	
	- incidence of respiratory illness	100%	
	- incidence of itchy eyes	100%	
SDG 4	Number of training initiatives for staff involved in the programme	1	Number
SDG 4	Number of workshops carried out for women for the group of VPA's	142	Number
SDG 5 (Social Empowerment Goals)- Rest and Leisure	Average time saving (in hours) per woman per week	1.7	Hours
SDG 5 (Social Empowerment Goals)- Applied skills and training	Number of person receive training for the construction of improved cook stoves and enhanced their skill	14,448 (92% of women)	Number
SDG 5 (Economic Empowerment Goals) – Income and Expenditure	Number of women benefits from micro credit scheme	0	Number
SDG 5 (Economic Empowerment Goals) – Income and Expenditure	Total benefit of income generation activities finances from micro credit scheme	0	€
SDG 5 (Economic Empowerment Goals) – Income and Expenditure	% Amount of saving on fuel cost by women	39,496	€
SDG 7	Number of F3PA efficient cookstoves	22,395	Number

disseminated for the group of VPA's

**Table 2 – Product Vintages**

			Amount Achieved
No. VPA	Start Dates	End Dates	VERs
VPA 14	29/02/2020	31/12/2020	9,324
VPA 15	03/03/2020	31/12/2020	9,156
VPA 16	05/03/2020	31/12/2020	9,262
VPA 17	10/03/2020	31/12/2020	2,344

## SECTION A. DESCRIPTION OF PROJECT

### A.1. General description of project

This project “Improved cookstove F3PA project in Nahouri” consists of 5 micro-scale VPA projects of microscale PoA GS1340 ‘Efficient cookstoves in Burkina Faso’ (ie VPA-14 (GS10778), VPA-15 (GS10779), VPA-16 (GS10780), VPA-17 (GS10781) and VPA-29 (GS11074) implemented by Association tiipaalga. The project promotes the distribution and utilisation of the mud made 3 stones efficient woodstove “F3PA” in the province of Nahouri in the region Centre-South of Burkina Faso. Association tiipaalga ensures the implementation of the project along with local communities/federation in an agreement with Fair Climate Fund, a social enterprise based in the Netherlands.

The F3PA is significantly more efficient than the traditional open fire three stone cooking method<sup>1</sup>. The project will thus help reduce wood consumption by more than half in each household and therefore preserve the local forests and their biodiversity. This will also help to combat the ever-increasing threat of desertification in the area. The efficient

<sup>1</sup> Rapport sur les tests de performances énegetiques des Foyers trois pierres améliorés (F3PA) de l’association Tiipaalga, Laboratoire Biomasse Energie et Biocarburnat de 2IE, Ouagadougou, July 2015 (see document « tiipaalga\_Rapport de tests de performance énegetiques\_F3PA\_24\_07\_2015\_VF.pdf »)

F3PA cookstoves replace the traditional stove whilst respecting the local three stone cooking culture. This is possible as the efficient F3PA cookstove, seen in the figure below, integrates the three stones from each household inside its design. These three stones represent the pillar of the household's marital union. The F3PA has further benefits like the reduction of harmful smoke in the local rural village households and the reduction of time spent in collecting wood. The project does not consist of a fuel switch as locally available wood is still being used.



Figure 1 Foyer Trois Pierre Amélioré "F3PA"

The project's approach involves training of women in the rural zones to build, use and maintain these efficient cookstoves themselves using local material. The training includes education on hygienic usage and on the threat of climate change and health hazards related to the old cooking system and inform on the health and environmental benefits of using such efficient cookstoves.

In addition to Gold Standard, the project will further certify under Fairtrade Climate Standard which would lead in a positive certification statement to the generation of Fairtrade Carbon Credits.

During this first monitoring period, 9,888 households of the province Nahouri were equipped with F3PA efficient cookstoves. It is estimated that the project with VPAs VPA-14 (GS10778), VPA-15 (GS10779), VPA-16 (GS10780) and VPA-17 (GS10781) has generated 30,086 tonnes of CO<sub>2</sub>eq emission reductions.

### A.2. Location of project

- Host country: Burkina Faso
- Province: Nahouri
- Municipalities: Gniaro, Po and Tiebele
- Geographical location :

Municipality	Latitude	Longitude
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Gniaro	11.376693	-1.378716
Po	11.167318	-1.144338
Tiébébé	11.097657	-0.965403

- Map:

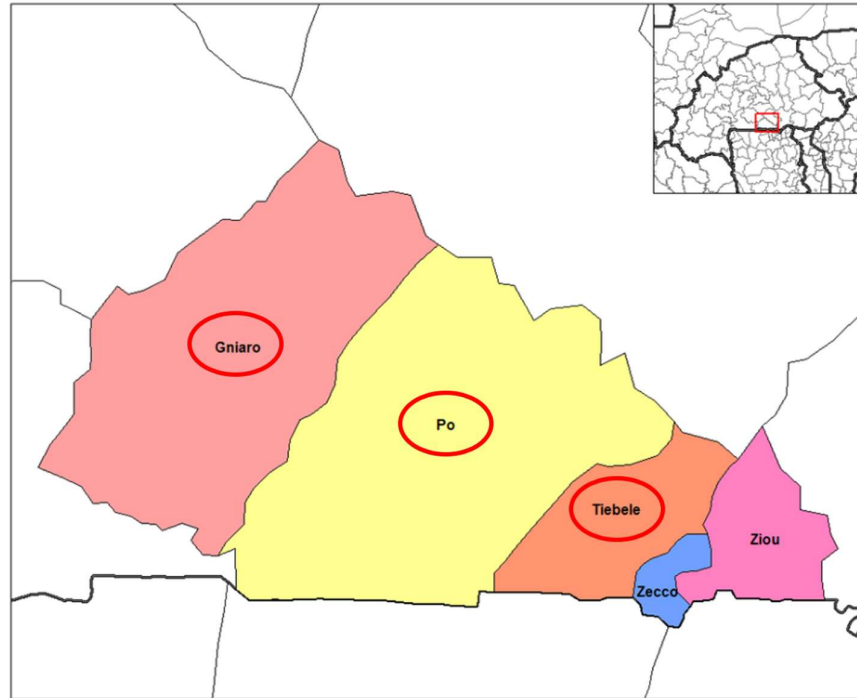


Figure 2 Location of project intervention area - 3 municipalities of Nahouri province

### A.3. Reference of applied methodology

“The Gold Standard Simplified Methodology for Efficient Cookstoves”, version 1

### A.4. Crediting period of project

GS10778 (VPA-14): 29/02/2020-28/02/2030 (10 years)

GS10779 (VPA-15): 03/03/2020-02/03/2030 (10 years)

GS10780 (VPA-16): 05/03/2020-04/03/2030 (10 years)

GS10781 (VPA-17): 10/03/2020-09/03/2030 (10 years)

## SECTION B. IMPLEMENTATION OF PROJECT

### B.1. Description of implemented project

The implemented project is a group of five VPA's, i.e. VPA-14 (GS10778), VPA-15 (GS10779), VPA-16 (GS10780), VPA-17 (GS10781) and VPA-29 (GS11074). The implementation of every VPAs started in the first semester of 2020. The project activities have served the following number of households with F3PA efficient cookstoves with a corresponding calculated GHG offsets generated during the first monitoring period:

GS/VPA number	Number of households	Dissemination calendar	Generated VER's
GS10778/ VPA-14	3,017	29/02/2020-31/12/2020	9,324
GS10779/ VPA-15	3,036	03/03/2020-31/12/2020	9,156
GS10780/ VPA-16	3,017	05/03/2020-31/12/2020	9,262
GS10781/ VPA-17	818	10/03/2020-31/12/2020	2,344

#### B.1.1 Forward Action Requests

**Forward Action Request # 1:** The scanned stoves installation receipts with English translation for the waiver for the transfer of credit to the project shall be submitted prior to 1st verification.

- ➔ The carbon waiver contracts signed with the first eligible installed stove for each VPA are made available in the following documents:
  - VPA 14: 'PO Nahouri centre VPA 14 1479 01\_with comments'
  - VPA 15: 'PO Songo I konta VPA 15 50119\_with comments'
  - VPA 17: 'PO Nahouri Sanabouga VPA 16 1566 01\_with comments'
  - VPA 17: 'PO Tambala Tambolotia VPA 17 86 01\_with comments'

This information is made available in the new version of the PDD (v.8) which is the one applicable for this monitoring period.

**Forward Action Request # 2:** Evidence of project start date shall be checked at 1st verification. Stoves installed more than one year prior to project submission date to sustain cert shall not be included in the VPAs.

- The date of first submission of documents for preliminary review is 28/05/2020. First stoves for each VPA have been installed have been installed less than one year of first submission.

**Forward Action Request # 3:** The PD shall record the baseline fuel for all users during the monitoring survey.

- The question regarding the type of fuel used for domestic cooking before the installation of the F3PA was included in the monitoring survey<sup>2</sup>. It appears that 100% of the surveyed households were using wood as fuel for domestic cooking during rainy and dry seasons before the start of the project.

## **B.2. Post-Design Certification changes**

B.2.1. Temporary deviations from the approved Monitoring & Reporting Plan, methodology or standardized baseline

No temporary deviations have been made during this monitoring period.

B.2.2. Corrections

No corrections to project information or fixed parameters have been applied.

B.2.3. Changes to start date of crediting period

As defined in PDD pg. 48, footnote: "The start date of the crediting period corresponds to the installation date (registered in project database), which is 7 days after the construction date. The installation date is to be considered as the first date of usage of the F3PA efficient cookstove and thus start date of crediting period". The start dates of crediting periods have been revised and evidence of the new starting dates per VPA can be found in the different contracts signed with the households with the first date of usage per VPA:

- VPA 14 - Martine - 1479 - Yarakoirabou Awèwoutchogi (installation 29/02/2020) ;
- VPA 15 - Madina - 50119 - koudanabou Yakoubou wedan (installation 03/03/2020);
- VPA 16 - Martine - 1566 - Lantry wèni (installation 05/03/2020) ;
- VPA 17 - Martine - 86 - Atiabou Janpana (installation 10/03/2020).

The start dates of crediting period changed compared to the VPA-DDs and are as follows for the VPAs:

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<sup>2</sup> See document: 'GS1340\_MS\_VPA\_14-15-16-17\_MP1\_20210419'/ Tab 'Analysis'.

GS/VPA number	Initial start date of VPA from PDD	Start date of VPA
GS10778/ VPA-14	15/01/2020	29/02/2020
GS10779/ VPA-15	24/02/2020	03/03/2020
GS10780/ VPA-16	10/03/2020	05/03/2020
GS10781/ VPA-17	01/11/2020	10/03/2020

B.2.4. Permanent changes from the Design Certified monitoring plan, applied methodology or applied standardized baseline

No permanent changes have been made for this monitoring period.

B.2.5. Changes to project design of approved project

No changes to the project design have been made during this monitoring period.

## SECTION C. DESCRIPTION OF MONITORING SYSTEM APPLIED BY THE PROJECT

### Process of unique identification of stove users:

Significant part of the households in the project area are polygamous. Most of the wives within a household included in the carbon project have a cookstove set of at least two F3PA efficient cookstoves of different sizes. The project cookstoves are single pot stoves. As every cooking pot size has its specific size of cookstove, different sizes of project cookstoves have been implemented according to the cooking habits of the stove users. The sizes of the cooking pots and so the cookstoves used in the VPA's are 2, 3, 4, 5, 6, 7, 8, 10, 12 and 15 due to its frequency of utilization. The women using different cookstove sets in a polygamous household are credited as one single household.

The individual identification of the micro scale – VPA's is ensured with the identification of each household and each wife within the household using the project cookstoves by a unique serial number referring to the micro scale VPA 14, VPA 15, VPA 16 or VPA 17. The syntax of the unique serial number is defined as GS1340-VPA-xx-yyyy/z, where (i) GS1340 is the Gold Standard number of the PoA "Efficient cookstoves in Burkina Faso" to which the VPA belongs, (ii) VPA-xx is the number of the VPA of the PoA, (iii) yyyy is the number of the household from 1 to 9999 and (iv) z is the number of the wife in the household from 1 to 9.

The following information is documented for each household of which each wife of the household (when polygamous) has replaced all traditional three stones cookstoves for domestic use with project cookstoves:

- i. Unique VPA ID number of each household and each wife within the household;
- ii. Type and size of appliance (ex. F3PA – size 2);
- iii. GPS Coordinates of the household;
- iv. Name/Address/national ID Number/Mobile Number/Picture of wife with her project cookstoves;
- v. Stove Installation Date.

All data are stored in an electronic database using AKVO Flow software ([www.akvo.org](http://www.akvo.org)).

The following files are raw data files of data stored in the cloud:

- 'GS1340\_VPA14-15-16-17\_DR\_HH\_20210401': distribution records (DR) of households with the following data:
  - o Identifier (Unique internal ID number);
  - o GS number: GS PoA-nr / VPA-nr / Household nr;
  - o Location info;
  - o Data on head of household.
- 'GS1340\_VPA14-15-16-17\_DR\_ICS\_20210401': data on wives and type of stoves used per wife within the household with the following data:
  - o Identifier (Unique internal ID number) which is the unique key to household info ('GS1340\_VPA14-15-16-17\_DR\_HH\_20210401');
  - o Identification data per wife: name, picture of wife with her stoves;
  - o Data on stoves used per wife: size of stoves, installation dates of each stove, location of stoves, ...

The start of the crediting period of each household is considered as the latest installation date of all stoves within the cooking sets of the different wives within the household (see file 'GS1340\_DR\_MP1\_VPA-14-15-16-17\_20210401\_Recent date\_v1.0'). For each household, the number of days in age group 0-1 are calculated based on this date.

### **Data concerning double counting:**

The project developer tiipaalga monitors any risks of double counting in this project, specifically determining whether any of the efficient cookstoves part of this project are counted in any other emission reduction project. There are other registered GHG reduction projects in Burkina Faso promoting the F3PA efficient cookstoves. Among those, one project is implemented in the north of Burkina Faso, in the provinces of Bam and Loroum, ie VPA-01 to 10 GS2456 and GS3516 to GS3524 under the same PoA GS1340. Another project under this PoA is located in the province Kourwéogo in the Plateau Central region (VPA-11 to 13, GS6152-6419-6420). Those two projects are also monitored by tiipaalga, that ensures there is no double counting. Association tiipaalga is also aware of another cookstove project<sup>3</sup> in Burkina Faso registered under the Gold Standard. However, this project promotes a different kind of stoves rather for non-domestic cooking purposes.

Association tiipaalga continues to monitor whether any other projects with same technology exist. In such cases, tiipaalga will make every effort to compare total distribution databases with the other project developer(s) to ensure that there is no overlap. In addition, the project continues to use all legal documentation outlined in the VPA-DD to ensure legal ownership over offsets, a step that further avoids double counting.

### **Data processing and archiving:**

Distribution records are captured with Smartphones using the AKVO Flow software with necessary pictures and GPS coordinates. Monitoring data are extracted to Microsoft Excel for analyses. Records will be kept for two years after the project activity is completed.

### **Quality assurance and quality control measures**

Quality control rules were developed for the F3PA efficient cookstoves and were explained during the stove construction trainings. Quality control rules included in the construction protocol of the F3PA efficient cookstove are among others:

- It should be possible to move a hand between the wall of the cookstove and the cookpot;
- The height of the wood entrance of the cookstove is at most half the total height of the cookstove;

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<sup>3</sup> The project (<https://registry.goldstandard.org/projects/details/665>) is an initiative of SNV, the Netherland Development Organization, to promote improved "dolo" stoves in the Boucle du Mouhoun Region of Burkina Faso. These stoves are used for brewing of "Dolo", a traditional local drink made from sorghum which is consumed during any ceremony, rituals, festivities and non-special occasions.

- The distance between the cooking pot and floor of cookstove should either not be higher than a hand or the handles of the cooking pot should be higher than the wall of the cookstove.

During monitoring surveys the F3PA efficient cookstoves are evaluated with the following statuses:

- Green: the construction norms have been respected and the F3PA efficient cookstove does not need any maintenance action. It means that (i) the outer surface of the F3PA efficient cookstove are not washed by rain, (ii) there is no hole in the floor of the efficient stove;
- Orange: the construction norms have been respected, but the efficient cookstove has not well been maintained. It concerns F3PA efficient cookstoves (i) from which the outer surface has been washed by rain and that need re-polishing; (ii) that have some cracks, but which are external and do not affect the quality of the combustion of the wood. For these cases, the application of the reparation protocol will fix the cracks and repolish the surface, so that the status will turn again into green.
- Red: the construction norms are not respected, or the F3PA efficient cookstoves have not been well maintained or used in a proper way. If the F3PA efficient cookstove has not been well constructed, the cookstove will not be registered in the initial database. A red cookstove needs to be reconstructed.

Orange cookstoves will be monitored, so that the maintenance activities of these stoves bring them again in green status. If these maintenance activities do not take place, they probably will in the short term, get into the red status. Orange F3PA efficient cookstoves are considered to have the same efficiency as the green F3PA efficient cookstoves of the same age group. The red F3PA efficient cookstoves will be monitored, as long as the cookstove has not been reconstructed. After reconstruction, the status of the F3PA efficient cookstove will turn to green. Red F3PA efficient cookstoves do not have the targeted efficiency of the F3PA efficient cookstove anymore, and so are not considered in the emission reduction calculations as long as they are not reconstructed.

### **Diagram of responsibilities**

As there are several entities involved in initial data collection and project monitoring it is important to clearly designate the relationships between and responsibilities of entities. Tiipaalga will act as the managing entity of the project and be responsible for communication with the Gold Standard Foundation and the Objective Observer. CO2logic provides technical support in the initial data collection, data quality assurance, monitoring, drafting of the verification report. A diagram of responsibilities is shown here below.

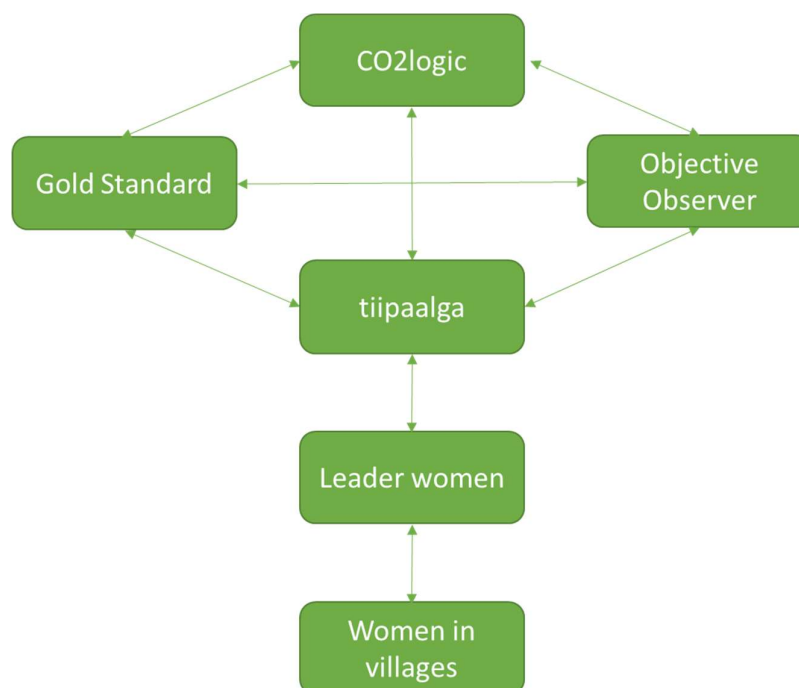


Figure 3 Diagram of responsibilities

Employees from Association tiipaalga train leader women, who are selected by the women in the villages, for the construction, the use and maintenance of mud made 3 stones efficient woodstoves. These leader women conduct the same training sessions with the women in their villages and help them to build the cookstoves. tiipaalga employees in collaboration with the leader women, will perform quality checks and collect the initial stove data.

End user information is collected by tiipaalga agents with mobile smartphone and is consolidated into an electronic database in the cloud from which project monitoring can be conducted. The central electronic database is accessible by tiipaalga and CO2logic. Data can be made available through data extraction. CO2logic performs quality checks. Monitoring tasks such as monitoring surveys are managed by tiipaalga and realized by the tiipaalga surveyors. They are the most capable of collecting these data because of extensive knowledge of the technology and end-users. The tiipaalga surveyors are trained and retrained prior conducting surveys during a 5-days training session which was this year conducted from 30/3/2021 till 03/04/2021<sup>4</sup>. CO2logic assists tiipaalga in cross-checking the integrity of data with other variables to ensure consistency and accuracy, and to avoid mistakes.

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<sup>4</sup> Report of the training session, see document: 'Compte rendu de formation des enqueteurs verification An1\_with comments'.

## SECTION D. DATA AND PARAMETERS

### D.1. Data and parameters fixed ex ante or at renewal of crediting period

Relevant SDG Indicator	SDG 13, Climate Action
Data/parameter:	$EF_{b,fuel,CO_2}$
Unit	tCO <sub>2</sub> /ton of firewood
Description	CO <sub>2</sub> emission factor arising from use of firewood in baseline scenario
Source of data	IPCC default value, table 1.4 of chapter 1 of Vol.2, 2006 IPCC Guidelines for National Greenhouse Gas Inventories
Value(s) applied)	1.747 tCO <sub>2</sub> /ton of firewood
Choice of data or measurement methods and procedures	As defined under the Gold Standard Simplified Methodology for Efficient Cookstoves
Purpose of data	Calculation of emission reductions
Additional comments	N/A

Relevant SDG Indicator	SDG 13, Climate Action
Data/parameter:	$EF_{b,fuel,non\_CO_2}$
Unit	tCO <sub>2</sub> /ton of firewood
Description	Non-CO <sub>2</sub> emission factor arising from use of firewood in baseline scenario
Source of data	IPCC Fifth Assessment Report: Climate Change (IPCC AR5)
Value(s) applied)	0.58 tCO <sub>2</sub> /ton of firewood
Choice of data or measurement methods and procedures	From rule update: Applicability of Global Warming potential for Gold Standard for the Global Goals Projects (06/03/2021).
Purpose of data	Calculation of emission reductions
Additional comments	N/A

Relevant SDG Indicator	SDG 13, Climate Action
Data/parameter:	$\eta_b$
Unit	Fraction
Description	Efficiency of the cookstove being used in the baseline scenario

Source of data	Gold Standard Simplified Methodology for Efficient Cookstoves
Value(s) applied)	0.10
Choice of data or measurement methods and procedures	As defined under the Gold Standard Simplified Methodology for Efficient Cookstoves
Purpose of data	Calculation of emission reductions
Additional comments	N/A

Relevant SDG Indicator	SDG 13, Climate Action
<b>Data/parameter:</b>	$\eta_p$
Unit	Fraction
Description	Efficiency of the cookstove being used in the project scenario
Source of data	Determined following the Water Boiling Test Protocol
Value(s) applied)	0.234 <sup>5</sup>
Choice of data or measurement methods and procedures	As defined under the Gold Standard Simplified Methodology for Efficient Cookstoves
Purpose of data	Calculation of emission reductions
Additional comments	<p>For each wife of one household included in the VPA, at least two efficient cookstoves of the defined project sizes 2, 3, 4, 5, 6, 7, 8, 10, 12 and 15 will be installed according to the local cooking habits. Each size of project cookstove is tested according to the WBT protocol. To determine the project cookstove efficiency of one particular size, three sample runs have been carried out on one randomly selected project cookstove. The average of the three results is taken as the efficiency for the project cookstove of this particular size.</p> <p>The lowest value of project cookstove efficiency of the various sizes is taken as reference value for the efficiency</p>

<sup>5</sup> Rapport sur les tests de performances énergétiques des Foyers trois pierres améliorés (F3PA) de l'association Tiipaalga, Laboratoire Biomasse Energie et Biocarburant de 2IE, Ouagadougou, July 2015 (see document « tiipaalga\_Rapport de tests de performance énergétiques\_F3PA\_24\_07\_2015\_VF.pdf » or in English : « tiipaalga\_Report WBT thermal efficiency\_F3PA\_24\_07\_2015\_VF\_EN »)

	<p>of the cookstoves being used in the project scenario to calculate the emission reductions.</p> <p>The project cookstove efficiency in the year <math>y</math> <math>\eta_{p,y}</math> will be determined using the discount factor <math>DF_{\eta}</math> to account for efficiency loss of project cookstove per year of operation (fraction).</p>
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Relevant SDG Indicator	SDG 13, Climate Action
<b>Data/parameter:</b>	<b><math>f_{NRB,b,y}</math></b>
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 and endorsed by the host country DNA ( <a href="http://cdm.unfccc.int/DNA/fNRB/docs/burkina.pdf">http://cdm.unfccc.int/DNA/fNRB/docs/burkina.pdf</a> )
Value(s) applied)	0.90
Choice of data or measurement methods and procedures	As defined under the Gold Standard Simplified Methodology for Efficient Cookstoves
Purpose of data	Calculation of emission reductions
Additional comments	The project activity may choose to update the $f_{NRB,b,y}$ during the crediting period

Relevant SDG Indicator	SDG 13, Climate Action
<b>Data/parameter:</b>	<b><math>B_{b,y}</math></b>
Unit	Tonnes firewood per household per year
Description	Firewood consumption for cooking in the baseline
Source of data	Baseline field performance test approved during PDD validation.  See document: ' <i>GS1340_Tiipaalga_VPA14-17_BFPT_20200515_Analysis_v1.0</i> '
Value(s) applied)	3.94
Choice of data or measurement methods and procedures	Option d of Field Performance Test has been chosen to determine the firewood consumption for cooking in the baseline.
Purpose of data	Calculation of emission reductions
Additional comments	The baseline performance field test (BFT) measures real, observed performance of the baseline cookstove in the field.

	<p>Consumption is measured with a representative sample of end users under each defined baseline scenario using the baseline cookstove. A 90/10 confidence/precision must be met to use the mean value for baseline fuel consumption. In case of sampling across VPA's 95/10 confidence precision must be met. A minimum sample size of 30 is recommended.</p> <p>The Baseline Field Performance Test has been conducted between 02/02/2020 and 20/02/2020 in 10 randomly selected villages from the 80 villages located in the project boundary, i.e. the municipalities of Po, Tiébélé and Guiaro. The 3 municipalities included in the 5 VPAs are very close to each other (furthest distance of 80 km). The total surface of the province Nahouri where all 3 municipalities of the project boundary are located, is 3,754 km<sup>2</sup>. The villages are characterized by similar socio-economic conditions. Within each of the 10 village 11 households were randomly selected to meet the 95/10 confidence precision requirement for the mean value for baseline fuel consumption in the Baseline Field Performance Test for cross VPA's.</p>
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## D.2 Data and parameters monitored

Relevant SDG Indicator	SDG 1, No poverty
Data/ Parameter	<p><b>Parameter #1: Number of leader women (Monitrice endogène) who benefit from microcredit</b></p> <p><b>Parameter #2: Total benefit from Income Generating activities financed through the microcredit scheme for the group of VPA's</b></p>
Unit	<p>Parameter #1: N.A.</p> <p>Parameter #2: € or FCFA</p>
Description	<p>Parameter #1: Number of leader women (Monitrice endogène) who benefit from microcredit during the monitoring period</p> <p>Parameter #2: total amount in FCFA or € of benefit generated by Income Generating Activities which are managed by the leader women (Monitrice endogène) and funded by the microcredit scheme</p>
Source of data	<p>Report on the implementation of the microcredit scheme. See document: '<i>Rapport d'étape de Mise en place_Micro Crédit_Nahouri_with comments</i>'.</p>
Value(s) applied	<p>Parameter #1: 0</p> <p>Parameter #2: 0€</p>

Measurement methods and procedure	The measurement of both parameters is based on quantitative information collected in the reports regarding the microcredit scheme.										
Monitoring frequency	After each implementation phase of the microcredit scheme										
QA/QC procedures	The data is analyzed in the reports regarding the microcredit scheme made available for review.										
Purpose of data	Calculation of the parameters "Number of leader women (Monitrice endogène) who benefit from microcredit" and "Total benefit from Income Generating activities financed through the microcredit scheme"										
Additional comment	<p>The parameters are not yet available as the amount granted to leader women was provided after the monitoring period (February 2021). Hence no claim can be done for this monitoring period which ended in December 2021. Although, evidence that the microcredit scheme has started during the first monitoring period (creation of management committees or COGES) can be found in documents:</p> <ul style="list-style-type: none"> <li>- 'PV de Bourou'</li> <li>- 'PV de Bourou'</li> <li>- 'PV de Douabié'</li> <li>- 'PV de Kassiri'</li> <li>- 'PV de Kassola'</li> <li>- 'PV de Langouerou'</li> <li>- 'Protocole de Bourou'</li> <li>- 'Protocole de Douabié'</li> <li>- 'Protocole de Kassiri'</li> <li>- 'Protocole de Kassola'</li> <li>- 'Protocole de Langouerou'</li> </ul> <p>For the next monitoring period, the number of women who beneficiate from microcredit is already available (553), though it is impossible to determine the benefit resulting from Income Generating Activities managed by the leader women (Monitrice endogène) and made possible thanks to the granted amount. This information will be available in the next monitoring report as the beneficiaries will make use the granted money.</p> <p>A total of 11,000,000 FCA or 16,765 € has been granted to 553 leader women within 20 villages (9 in the municipality of Pô and 11 in the municipality of Tiébélé). The following tables summarize the details regarding the microcredit scheme implemented after this monitoring period (February 2021).</p> <ul style="list-style-type: none"> <li>• <i>Municipality of Pô</i></li> </ul> <table border="1" data-bbox="662 1814 1409 1955"> <thead> <tr> <th>Villages</th> <th>Number of Leader women</th> <th>Granted amount (FCFA)</th> <th>Average granted amount</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			Villages	Number of Leader women	Granted amount (FCFA)	Average granted amount				
Villages	Number of Leader women	Granted amount (FCFA)	Average granted amount								

			<b>per Leader women</b>
<b>Gougogo</b>	25	550,000	15,000
<b>Yaro</b>	27	550,000	20,000
<b>Adongo</b>	30	550,000	20,000
<b>Bourou</b>	20	550,000	27,500
<b>Badongo</b>	41	550,000	13,000
<b>Langouerou</b>	34	550,000	16,000
<b>Poungyan</b>	28	550,000	15,000
<b>Tiakane</b>	26	550,000	20,000
<b>Songo 1</b>	28	550,000	15,000

- *Municipality of Tiébélé*

<b>Villages</b>	<b>Number of Leader women</b>	<b>Granted amount (FCFA)</b>	<b>Average granted amount per Leader women</b>
<b>Kaya-Korso</b>	28	550,000	15,000
<b>Lo-moulnia</b>	28	550,000	15,000
<b>Kaya-Navio</b>	28	550,000	15,000
<b>Kaya-Fabolo</b>	28	550,000	15,000
<b>Douabié</b>	18	550,000	30,000
<b>Kassola</b>	19	550,000	28,000
<b>Ballerbié2</b>	33	550,000	16,000
<b>Tiyalo</b>	29	550,000	17,000
<b>Idenia-Kora</b>	24	550,000	22,000
<b>Coumpougbié</b>	30	550,000	18,000
<b>Kassiri</b>	29	550,000	28,000

<b>Relevant SDG Indicator</b>	<b>SDG 1, No poverty</b>
<b>Data/ Parameter</b>	<p><b>Total estimated amount saved by stove users on wood fuel purchase for the group of VPA's</b></p> <p>Various expenses which women do after saving money required for the purchase of wood:</p> <ol style="list-style-type: none"> <li>i. School fees<sub>p</sub>;</li> <li>ii. Purchase of medical drugs<sub>p</sub>;</li> <li>iii. Purchase of food<sub>p</sub>;</li> <li>iv. Investment for field crops<sub>p</sub>;</li> <li>v. Purchase of equipments<sub>p</sub>;</li> </ol>

	<ul style="list-style-type: none"> <li>vi. Income generating activities<sub>p</sub>;</li> <li>vii. Savings<sub>p</sub>.</li> </ul>
Unit	€ or FCFA
Description	<p>Total estimated amount in FCFA or € saved by the stove users on wood fuel purchase during the monitoring period</p> <ul style="list-style-type: none"> <li>i. School fees<sub>p</sub>: Proportion of stove users using their saved money to school fees;</li> <li>ii. Purchase of medical drugs<sub>p</sub>: Proportion of stove users using their saved money to purchase of medical drugs;</li> <li>iii. Purchase of food<sub>p</sub>: Proportion of stove users using their saved money to</li> <li>iv. Investment for field crops<sub>p</sub>: Proportion of stove users using their saved money to investments for field crops;</li> <li>v. Purchase of equipments<sub>p</sub>: Proportion of stove users using their saved money to purchase of equipments;</li> <li>vi. Income generating activities<sub>p</sub>: Proportion of stove users using their saved money to income generating activities;</li> <li>vii. Savings<sub>p</sub>: Proportion of stove users using their saved money to savings.</li> </ul>
Source of data	Monitoring survey, see document 'GS1340_MS_VPA_14-15-16-17_MP1_20210419'.
Value(s) applied	<p>25,909,063 FCFA or 39,496 €</p> <p>Proportion of the usage of saved money:</p> <ul style="list-style-type: none"> <li>i. School fees<sub>p</sub>: 88%</li> <li>ii. Purchase of medical drugs<sub>p</sub>: 100%</li> <li>iii. Purchase of food<sub>p</sub>: 100%</li> <li>iv. Investment for field crops<sub>p</sub>: 0%</li> <li>v. Purchase of equipments<sub>p</sub>: 0%</li> <li>vi. Income generating activities<sub>p</sub>: 13%</li> <li>vii. Savings<sub>p</sub>: 0%</li> </ul>
Measurement methods and procedure	The measurement of the parameter is based on quantitative information collected during Monitoring surveys. The end users are asked whether they purchase wood fuel and if so, how much they spend on yearly basis. The result is extrapolated is on all stove users within the group of VPA's.
Monitoring frequency	Annual
QA/QC procedures	The data will be analysed in the monitoring report and raw data of the Monitoring surveys will be made available for review.
Purpose of data	Calculation of the parameter "Total estimated amount saved by stove users on wood fuel purchase"
Additional comment	N/A

<b>Relevant SDG Indicator</b>	<b>SDG 3, Good health and well-being</b>
<b>Data/ Parameter</b>	<b>Smoke level reduction</b>

	<b>Incidence of coughing reduction Incidence of respiratory illness reduction Incidence of itchy eyes reduction</b>
Unit	Fraction
Description	Proportion of households perceiving less often smoke levels, incidence of coughing, incidence of respiratory illness, incidence of itchy eyes since the implementation of F3PA efficient cookstoves
Source of data	Monitoring survey, see document 'GS1340_MS_VPA_14-15-16-17_MP1_20210419'.
Value(s) applied	Smoke level reduction: 100% Incidence of coughing reduction: 100% Incidence of respiratory illness reduction: 100% Incidence of itchy eyes reduction: 100%
Measurement methods and procedure	The measurement of the parameter is based on qualitative information collected during Monitoring surveys. The end users are asked whether, since they have the F3PA efficient cookstoves, smoke level occurs for each more often, less often among the family members or the situation has not changed. The same is asked for coughing, respiratory illnesses and itchy eyes.
Monitoring frequency	Annual
QA/QC procedures	The data is analyzed in the monitoring report and raw data of the Monitoring surveys is made available for review.
Purpose of data	Calculation of the parameter "Proportion of households perceiving less often smoke levels, incidence of coughing, incidence of respiratory illness, incidence of itchy eyes"
Additional comment	N.A.

<b>Relevant SDG Indicator</b>	<b>SDG 4, Quality Education</b>
<b>Data/ Parameter</b>	<b>Number of training initiatives for staff involved in the programme</b>
Unit	Number
Description	Number of training initiatives for staff involved in the programme in order to increase their performance in the programme
Source of data	Reports regarding the training initiatives See document 'Compte rendu de formation des enquêteurs verification An1_with comments'
Value(s) applied	1
Measurement methods and procedure	The list of training initiatives during the corresponding monitoring period
Monitoring frequency	Annual
QA/QC procedures	The data is analyzed in the reports regarding the training initiatives, which is made available for review

Purpose of data	Calculation of the parameter "Number of trainings initiatives for staff involved in the programme"
Additional comment	Starting from the Tuesday 30 <sup>th</sup> of March, six surveyors received a 5-day training under the supervision of two members of Association tiipaalga. The purpose of the training was to teach the fundamentals of the usage survey with a theoretical and practical phase and to familiarize with the used tools (Akvo software). The surveyors were ultimately able to collect quality data from the households on the field for the purpose of the monitoring survey. More details regarding the training and the participants list can be found in document: 'Compte rendu de formation des enqueteurs verification An1_with comments'.

Relevant SDG Indicator	SDG 4, Quality Education
<b>Data/ Parameter</b>	<b>Number of workshops carried out for women for the group of VPA's</b>
Unit	Number
Description	Number of workshops carried out for women in order to increase their empowerment
Source of data	Reports regarding the workshops carried out for women. Complete summary can be found in document ' <i>synthèse des AGV AGVS et la formation des ME dans les 47 villages commune de Pô et tiebele - reviewed_with comments.</i>
Value(s) applied	142
Measurement methods and procedure	The list of workshops carried out for women during the corresponding monitoring period
Monitoring frequency	Annual
QA/QC procedures	The data is analyzed in the reports regarding the workshops carried out for women, which is made available for review
Purpose of data	Calculation of the parameter "Number of workshops carried out for women"
Additional comment	Two types of workshops were organized: i) sensitization workshops; and ii) training workshops of leader women for the construction of F3PA efficient cookstoves. During the sensibilization sessions stove users are informed about the advantages of the project cookstoves for the climate and desertification of the project area, tiipaalga's activities, on how the banco or mud should be prepared for the construction of the cookstoves etc. During training sessions leader women are trained on how the F3PA efficient cookstoves should be constructed. In total, 14,448 participants were present during the workshops; 92% of which were women. A complete summary of the different sessions can be found in document : ' <i>synthèse des AGV AGVS et la formation des ME dans les 47 villages commune de Pô et tiebele - reviewed_with comments.</i> ' The following table gives an overview of the number of sessions and number of participants:

Municipality	Sensitization sessions		Training workshops of leader women		Total	
	# sessions	# participants	# sessions	# participants	# sessions	# Participants
Pô	46	4,673	23	1,753	69	6,426
Tiébélé	48	4,903	25	3,119	73	8,022
<b>Total</b>	<b>94</b>	<b>9,576</b>	<b>47</b>	<b>4,872</b>	<b>142</b>	<b>14,448</b>

Evidences of the sensitisation sessions can be found in following documents:

- *Adongo\_Pô\_AG.pdf*
- *Badongo\_Pô\_AG.pdf*
- *Ballerbié I\_Tiébélé\_AG.pdf*
- *Ballerbié II\_Tiébélé\_AG.pdf*
- *Banon\_Pô\_AG.pdf*
- *Bilmona\_Tiébélé\_AG.pdf*
- *Bourou\_Pô\_AG.pdf*
- *Coumpougbié\_Tiébélé\_AG.pdf*
- *Dakola\_Pô\_AG.pdf*
- *Dongo\_Pô\_AG.pdf*
- *Douabié\_Tiébélé\_AG.pdf*
- *Fanian\_Pô\_AG.pdf*
- *Gho\_Pô\_AG.pdf*
- *Gougogo\_Pô\_AG.pdf*
- *Idénia Tanga\_Tiébélé\_AG.pdf*
- *Idéni-cora\_Tiébélé\_AG.pdf*
- *Kaponi\_Pô\_AG.pdf*
- *Kassiri\_Tiébélé\_AG.pdf*
- *Kassola\_Tiébélé\_AG.pdf*
- *Katcheli\_Pô\_AG.pdf*
- *Kaya fabolo\_Tiébélé\_AG.pdf*
- *Kaya-korso\_Tiébélé\_AG.pdf*
- *Kaya-navio\_Tiébélé\_AG.pdf*
- *Kollo\_Tiébélé\_AG.pdf*
- *Korabié\_Tiébélé\_AG.pdf*
- *Langouerou\_Tiébélé\_AG.pdf*
- *Lô-caloa\_Tiébélé\_AG.pdf*
- *Lô-moulnia\_Tiébélé\_AG.pdf*
- *Lo-pouri\_Tiébélé\_AG.pdf*
- *Lo-sinon\_Tiébélé\_AG.pdf*
- *Mankano\_Tiébélé\_AG.pdf*
- *Mantiongo\_Pô\_AG.pdf*
- *MantiongogoTiébélé\_AG.pdf*
- *Nabénia\_Tiébélé\_AG.pdf*
- *Nahouri\_Pô\_AG.pdf*
- *Nakoum\_Pô\_AG.pdf*
- *Poukouyan\_Pô\_AG.pdf*

- *Songo I\_Pô\_AG.pdf*
- *Songo II\_Pô\_AG.pdf*
- *Tambolo\_Pô\_AG.pdf*
- *Tangassogo\_Tiébélé\_AG.pdf*
- *Tiakané\_Pô\_AG.pdf*
- *Tiponi\_Tiébélé\_AG.pdf*
- *Tiyalo\_Tiébélé\_AG.pdf*
- *Torem\_Pô\_AG.pdf*
- *Yago\_Pô\_AG.pdf*
- *Yaro\_Pô\_AG.pdf*
- *Liste de présence\_choix ME\_Badongo\_Pô.pdf*
- *Liste de présence\_choix ME\_Dongo\_Pô.pdf*
- *Liste de présence\_choix ME\_Fanian\_Pô.pdf*
- *Liste de présence\_choix ME\_Gho\_Pô.pdf*
- *Liste de présence\_choix ME\_Gougogo\_Pô.pdf*
- *Liste de présence\_choix ME\_Kaponi\_Pô.pdf*
- *Liste de présence\_choix ME\_Langouerou\_Pô.pdf*
- *Liste de présence\_choix ME\_Mantiongo\_Pô.pdf*
- *Liste de présence\_choix ME\_Nakoum\_Pô.pdf*
- *Liste de présence\_choix ME\_Pô\_Adongo.pdf*
- *Liste de présence\_choix ME\_Pô\_Banon.pdf*
- *Liste de présence\_choix ME\_Pô\_Bourou.pdf*
- *Liste de présence\_choix ME\_Pô\_Dakola.pdf*
- *Liste de présence\_choix ME\_Pô\_Katcheli.pdf*
- *Liste de présence\_choix ME\_Pô\_Nahouri.pdf*
- *Liste de présence\_choix ME\_Pô\_Tambolo.pdf*
- *Liste de présence\_choix ME\_Pô\_Yaro.pdf*
- *Liste de présence\_choix ME\_Pounkouyan\_Pô.pdf*
- *Liste de présence\_choix ME\_SongoI\_Pô.pdf*
- *Liste de présence\_choix ME\_SongoII\_Pô.pdf*
- *Liste de présence\_choix ME\_Tiakané\_Pô.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Ballerbié I.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Ballerbié II.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Bilmona.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Coumpougbié.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Douabié.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Idénia-cora.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Idénia-tanga.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Kassiri.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Kassola.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Kaya fabolo.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_kaya navio.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_kaya-korso.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Kollo.pdf*

- *Liste de présence\_choix ME\_Tiébélé\_Korabié.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Lo-moulnia.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Io-pouri.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Lô-sinon.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Mankano.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Mationgogo.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Nabénia.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Pô-caloa.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Tangassogo.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Tiponi.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Tiyalo.pdf*
- *Liste de présence\_choix ME\_Torem\_Pô.pdf*
- *Liste de présence\_choix ME\_Yago\_Pô.pdf*

Evidences of the training sessions can be found in following documents:

- *Adongo\_Pô\_formation ME.pdf*
- *Badongo\_Pô\_formation ME.pdf*
- *Ballerbié I\_Tiébélé\_formation ME.pdf*
- *Ballerbié II\_Tiébélé\_formation ME.pdf*
- *Banon\_Pô\_formation ME.pdf*
- *Bilmona\_Tiébélé\_formation ME.pdf*
- *Bourou\_Pô\_formation ME.pdf*
- *Coumpougbié\_Tiébélé\_formation ME.pdf*
- *Dakola\_Pô\_formation ME.pdf*
- *Dongo\_Pô\_formation ME.pdf*
- *Douabié\_Tiébélé\_formation ME.pdf*
- *Fanian\_Pô\_formation ME.pdf*
- *Gho\_Pô\_formation ME.pdf*
- *Gougogo\_Pô\_formation ME.pdf*
- *Idénia tanga\_Tiébélé\_formation ME.pdf*
- *Idénia-cora\_Tiébélé\_formation ME.pdf*
- *Kaponi\_Pô\_formation ME.pdf*
- *Kassiri\_Tiébélé\_formation ME.pdf*
- *Kassola\_Tiébélé\_formation ME.pdf*
- *Katcheli\_Pô\_formation ME.pdf*
- *Kaya-fabolo\_Tiébélé\_formation ME.pdf*
- *Kaya-korso\_Tiébélé\_formation ME.pdf*
- *Kaya-navio\_Tiébélé\_formation ME.pdf*
- *Kollo\_Tiébélé\_formation ME.pdf*
- *Korabié\_Tiébélé\_formation ME.pdf*
- *Langouerou\_Pô\_formation ME.pdf*
- *Lô-caloa\_Tiébélé\_formation ME.pdf*
- *Lô-moulnia\_Tiébélé\_formation ME.pdf*
- *Lô-pouri\_Tiébélé\_formation ME.pdf*
- *Lo-sinonTiébélé\_formation ME.pdf*

	<ul style="list-style-type: none"> <li>• <i>Mankano_Tiébélé_formation ME.pdf</i></li> <li>• <i>Mantiongo_Pô_formation ME.pdf</i></li> <li>• <i>Mantiongogo_Tiébélé_formation ME.pdf</i></li> <li>• <i>Nabenia_Tiébélé_formation ME.pdf</i></li> <li>• <i>Nahouri_Pô_formation ME.pdf</i></li> <li>• <i>Nakoum_Pô_formation ME.pdf</i></li> <li>• <i>Poukouyan_Pô_formation ME.pdf</i></li> <li>• <i>Songo I_Pô_formation ME.pdf</i></li> <li>• <i>Songo II_Pô_formation ME.pdf</i></li> <li>• <i>Tambolo_Pô_formation ME.pdf</i></li> <li>• <i>Tangassogo_Tiébélé_formation ME.pdf</i></li> <li>• <i>Tiakané_Pô_formation ME.pdf</i></li> <li>• <i>Tiponi_Tiébélé_formation ME.pdf</i></li> <li>• <i>Tiyalo_Tiébélé_formation ME.pdf</i></li> <li>• <i>Torem_Pô_formation ME.pdf</i></li> <li>• <i>Yago_Pô_formation ME.pdf</i></li> <li>• <i>Yaro_Pô_formation ME.pdf</i></li> </ul>
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Relevant SDG Indicator	SDG 5, Gender equality
<b>Data/ Parameter</b>	<p><b>Gender Responsive Indicator under Social Empowerment Goals – Rest and Leisure</b></p> <p><b>Average time saving (in hours) per woman per week</b></p> <p>Various activities which women spend after saving time required for collecting fuel wood: (i) Domestic tasks<sub>p</sub>; (ii) Income generating activities<sub>p</sub>; (iii) Field labour<sub>p</sub>; (iv) Gardening<sub>p</sub>; (v) Participation to a literacy program<sub>p</sub>; (vi) Community work<sub>p</sub>; (vii) Religious activities<sub>p</sub>.</p>
Unit	Hours/week
Description	<p>Average time saving (in hours) on wood fuel collection per woman per week during the monitoring period.</p> <p>Proportion of stove users using their saved time to do:</p> <ul style="list-style-type: none"> <li>i) Domestic tasks<sub>p</sub> = Proportion of stove users using their saved time to do domestic tasks</li> <li>ii) Income generating activities<sub>p</sub> = Proportion of stove users using their saved time to do income generating activities</li> <li>iii) Field labour<sub>p</sub> = Proportion of stove users using their saved time to do field labour</li> <li>iv) Gardening<sub>p</sub> = Proportion of stove users using their saved time to do gardening</li> <li>v) Participation to a literacy program<sub>p</sub> = Proportion of stove users using their saved time to participate to a literacy program</li> <li>vi) Community work<sub>p</sub> = Proportion of stove users using their saved time to do community work</li> <li>vii) Doing nothing<sub>p</sub> = Proportion of stove users using their saved time to do nothing</li> </ul>

	<p>viii) Religious activities<sub>p</sub> = Proportion of stove users using their saved time to do religious activities</p> <p>ix) Leisure<sub>p</sub> = Proportion of stove users using their saved time to do leisure</p>
Source of data	Monitoring survey, see document 'GS1340_MS_VPA_14-15-16-17_MPI_20210419'.
Value(s) applied	<p>Average time saving (in hours) on wood fuel collection: 1.7 hours/week.</p> <p>Proportion of stove users using their saved time to do:</p> <ul style="list-style-type: none"> <li>i) Domestic tasks<sub>p</sub>: 55%</li> <li>ii) Income generating activities<sub>p</sub>: 29%</li> <li>iii) Field labour<sub>p</sub>: 10%</li> <li>iv) Gardening<sub>p</sub>: 3%</li> <li>v) Participation to a literacy program<sub>p</sub>: 0%</li> <li>vi) Community work<sub>p</sub>: 2%</li> <li>vii) Doing nothing<sub>p</sub>: 1%</li> <li>viii) Religious activities<sub>p</sub>: 0%</li> <li>ix) Leisure<sub>p</sub>: 0%</li> </ul>
Measurement methods and procedure	The measurement of the parameter is based on quantitative information collected during Monitoring surveys. The end users are asked, how much time they spent collecting wood fuel for domestic cooking since they have the F3PA efficient cookstoves.
Monitoring frequency	Annual
QA/QC procedures	The data is analyzed in the monitoring report and raw data of the Monitoring surveys is made available for review.
Purpose of data	Calculation of the parameter "Average time saving (in hours) on wood fuel collection per woman per week during the monitoring period"
Additional comment	Based on the indication of wood collection frequency in the answers of the monitoring survey, a prior estimation of 4.2 hours average time saving per week was found; hence a reduction of 72% of the time spent for wood fuel collection. To remain conservative, PD chose not to apply this value as it seems overstated from the reality. Therefore, the reduction factor suggested in the PDD was chosen for this monitoring period (30% reduction or time saving of 1.7 hours/week).

	For the next monitoring period, PD shall revise the questions of the monitoring survey to ensure that the information regarding the parameter "Average time saving (in hours) on wood fuel collection" will be made available for reporting in a more consistent way.
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Relevant SDG Indicator	SDG 5, Gender Equality											
<b>Data/ Parameter</b>	<b>Gender Responsive Indicators under Social Empowerment Goals – Applied Skills and training</b>											
Unit	<ul style="list-style-type: none"> <li>Number of person (% women) receive training for the construction of improved cook stoves and enhanced their skill</li> </ul>											
Description	Number of person participated in the workshop in order to increase their empowerment											
Source of data	Reports regarding the workshops carried out for women. Complete summary can be found in document ' <i>synthèse des AGV AGVS et la formation des ME dans les 47 villages commune de Pô et tiebele - reviewed_with comments.</i>											
Value(s) applied	14,448 (92% were women and 8% men)											
Measurement methods and procedure	The list of workshops carried out for women during the corresponding monitoring period											
Monitoring frequency	Annual											
QA/QC procedures	The data is analyzed in the reports regarding the workshops carried out for women, which is made available for review											
Purpose of data	Calculation of the parameter "Number of person receive applied skills and training"											
Additional comment	<p>Two types of workshops were organized: i) sensitization workshops; and ii) training workshops of leader women for the construction of F3PA efficient cookstoves. During the sensibilization sessions stove users are informed about the advantages of the project cookstoves for the climate and desertification of the project area, tiipaalga's activities, on how the banco or mud should be prepared for the construction of the cookstoves etc. During training sessions leader women are trained on how the F3PA efficient cookstoves should be constructed. In total, 14,448 participants were present during the workshops; 92% of which were women. A complete summary of the different sessions can be found in document : '<i>synthèse des AGV AGVS et la formation des ME dans les 47 villages commune de Pô et tiebele - reviewed_with comments.</i></p> <p>The following table gives an overview of the number of sessions and number of participants:</p> <table border="1" style="width: 100%; text-align: center; margin-top: 10px;"> <thead> <tr> <th style="width: 25%;">Municipality</th> <th style="width: 25%;">Sensitization sessions</th> <th style="width: 25%;">Training workshops of leader women</th> <th style="width: 25%;">Total</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				Municipality	Sensitization sessions	Training workshops of leader women	Total				
Municipality	Sensitization sessions	Training workshops of leader women	Total									

	# sessi ons	# particip ants	# sessi ons	# particip ants	# sessi ons	# Particip ants
Pô	46	4,673	23	1,753	69	6,426
Tiébéélé	48	4,903	25	3,119	73	8,022
<b>Total</b>	<b>94</b>	<b>9,576</b>	<b>47</b>	<b>4,872</b>	<b>142</b>	<b>14,448</b>

Evidences of the sensitisation sessions can be found in following documents:

- *Adongo\_Pô\_AG.pdf*
- *Badongo\_Pô\_AG.pdf*
- *Ballerbié I\_Tiébéélé\_AG.pdf*
- *Ballerbié II\_Tiébéélé\_AG.pdf*
- *Banon\_Pô\_AG.pdf*
- *Bilmona\_Tiébéélé\_AG.pdf*
- *Bourou\_Pô\_AG.pdf*
- *Coumpougbié\_Tiébéélé\_AG.pdf*
- *Dakola\_Pô\_AG.pdf*
- *Dongo\_Pô\_AG.pdf*
- *Douabié\_Tiébéélé\_AG.pdf*
- *Fanian\_Pô\_AG.pdf*
- *Gho\_Pô\_AG.pdf*
- *Gougogo\_Pô\_AG.pdf*
- *Idénia Tanga\_Tiébéélé\_AG.pdf*
- *Idéni-cora\_Tiébéélé\_AG.pdf*
- *Kaponi\_Pô\_AG.pdf*
- *Kassiri\_Tiébéélé\_AG.pdf*
- *Kassola\_Tiébéélé\_AG.pdf*
- *Katcheli\_Pô\_AG.pdf*
- *Kaya fabolo\_Tiébéélé\_AG.pdf*
- *Kaya-korso\_Tiébéélé\_AG.pdf*
- *Kaya-navio\_Tiébéélé\_AG.pdf*
- *Kollo\_Tiébéélé\_AG.pdf*
- *Korabié\_Tiébéélé\_AG.pdf*
- *Langouerou\_Tiébéélé\_AG.pdf*
- *Lô-caloa\_Tiébéélé\_AG.pdf*
- *Lô-moulnia\_Tiébéélé\_AG.pdf*
- *Lo-pouri\_Tiébéélé\_AG.pdf*
- *Lo-sinon\_Tiébéélé\_AG.pdf*
- *Mankano\_Tiébéélé\_AG.pdf*
- *Mantiongo\_Pô\_AG.pdf*
- *MantiongogoTiébéélé\_AG.pdf*
- *Nabénia\_Tiébéélé\_AG.pdf*
- *Nahouri\_Pô\_AG.pdf*
- *Nakoum\_Pô\_AG.pdf*
- *Poukouyan\_Pô\_AG.pdf*
- *Songo I\_Pô\_AG.pdf*
- *Songo II\_Pô\_AG.pdf*
- *Tambolo\_Pô\_AG.pdf*
- *Tangassogo\_Tiébéélé\_AG.pdf*
- *Tiakané\_Pô\_AG.pdf*

- *Tiponi\_Tiébélé\_AG.pdf*
- *Tiyalo\_Tiébélé\_AG.pdf*
- *Torem\_Pô\_AG.pdf*
- *Yago\_Pô\_AG.pdf*
- *Yaro\_Pô\_AG.pdf*
- *Liste de présence\_choix ME\_Badongo\_Pô.pdf*
- *Liste de présence\_choix ME\_Dongo\_Pô.pdf*
- *Liste de présence\_choix ME\_Fanian\_Pô.pdf*
- *Liste de présence\_choix ME\_Gho\_Pô.pdf*
- *Liste de présence\_choix ME\_Gougogo\_Pô.pdf*
- *Liste de présence\_choix ME\_Kaponi\_Pô.pdf*
- *Liste de présence\_choix ME\_Langouerou\_Pô.pdf*
- *Liste de présence\_choix ME\_Mantiongo\_Pô.pdf*
- *Liste de présence\_choix ME\_Nakoum\_Pô.pdf*
- *Liste de présence\_choix ME\_Pô\_Adongo.pdf*
- *Liste de présence\_choix ME\_Pô\_Banon.pdf*
- *Liste de présence\_choix ME\_Pô\_Bourou.pdf*
- *Liste de présence\_choix ME\_Pô\_Dakola.pdf*
- *Liste de présence\_choix ME\_Pô\_Katcheli.pdf*
- *Liste de présence\_choix ME\_Pô\_Nahouri.pdf*
- *Liste de présence\_choix ME\_Pô\_Tambolo.pdf*
- *Liste de présence\_choix ME\_Pô\_Yaro.pdf*
- *Liste de présence\_choix ME\_Pounkouyan\_Pô.pdf*
- *Liste de présence\_choix ME\_SongoI\_Pô.pdf*
- *Liste de présence\_choix ME\_SongoII\_Pô.pdf*
- *Liste de présence\_choix ME\_Tiakané\_Pô.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Ballerbié I.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Ballerbié II.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Bilmona.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Coumpougbié.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Douabié.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Idénia-cora.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Idénia-tanga.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Kassiri.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Kassola.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Kaya fabolo.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_kaya navio.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_kaya-korso.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Kollo.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Korabié.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Lo-moulnia.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_lo-pouri.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Lô-sinon.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Mankano.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Mationgogo.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Nabénia.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Pô-caloa.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Tangassogo.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Tiponi.pdf*
- *Liste de présence\_choix ME\_Tiébélé\_Tiyalo.pdf*
- *Liste de présence\_choix ME\_Torem\_Pô.pdf*

- *Liste de présence\_choix ME\_Yago\_Pô.pdf*

Evidences of the training sessions can be found in following documents:

- *Adongo\_Pô\_formation ME.pdf*
- *Badongo\_Pô\_formation ME.pdf*
- *Ballerbié I\_Tiébélé\_formation ME.pdf*
- *Ballerbié II\_Tiébélé\_formation ME.pdf*
- *Banon\_Pô\_formation ME.pdf*
- *Bilmona\_Tiébélé\_formation ME.pdf*
- *Bourou\_Pô\_formation ME.pdf*
- *Coumpougbié\_Tiébélé\_formation ME.pdf*
- *Dakola\_Pô\_formation ME.pdf*
- *Dongo\_Pô\_formation ME.pdf*
- *Douabié\_Tiébélé\_formation ME.pdf*
- *Fanian\_Pô\_formation ME.pdf*
- *Gho\_Pô\_formation ME.pdf*
- *Gougogo\_Pô\_formation ME.pdf*
- *Idénia tanga\_Tiébélé\_formation ME.pdf*
- *Idénia-cora\_Tiébélé\_formation ME.pdf*
- *Kaponi\_Pô\_formation ME.pdf*
- *Kassiri\_Tiébélé\_formation ME.pdf*
- *Kassola\_Tiébélé\_formation ME.pdf*
- *Katcheli\_Pô\_formation ME.pdf*
- *Kaya-fabolo\_Tiébélé\_formation ME.pdf*
- *Kaya-korso\_Tiébélé\_formation ME.pdf*
- *Kaya-navio\_Tiébélé\_formation ME.pdf*
- *Kollo\_Tiébélé\_formation ME.pdf*
- *Korabié\_Tiébélé\_formation ME.pdf*
- *Langouerou\_Pô\_formation ME.pdf*
- *Lô-caloa\_Tiébélé\_formation ME.pdf*
- *Lô-moulnia\_Tiébélé\_formation ME.pdf*
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- *Tangassogo\_Tiébélé\_formation ME.pdf*
- *Tiakané\_Pô\_formation ME.pdf*
- *Tiponi\_Tiébélé\_formation ME.pdf*
- *Tiyalo\_Tiébélé\_formation ME.pdf*
- *Torem\_Pô\_formation ME.pdf*

	<ul style="list-style-type: none"> <li>• <i>Yago_Pô_formation ME.pdf</i></li> <li>• <i>Yaro_Pô_formation ME.pdf</i></li> </ul>
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Relevant SDG Indicator	SDG 5, Gender Equality
Data/ Parameter	<p><b>Gender Responsive Indicators under Economic Empowerment Goals – Income &amp; Expenditure</b></p> <ul style="list-style-type: none"> <li>• Indicator 1 - Number of women benefits from micro credit scheme</li> <li>• Indicator 2 - Total benefit of income generation activities finances from micro credit scheme</li> <li>• Indicator 3 - % Amount of saving on fuel cost by women</li> </ul>
Unit	Indicator #1: Number Indicator #2: € or FCFA Indicator#3 : € or FCFA
Description	Indicator #1: Number of women benefits from micro credit scheme Indicator #2: Total benefit of income generation activities finances from micro credit scheme Indicator #3: % Amount of saving on fuel cost by women
Source of data	Report on the implementation of the microcredit scheme. See document: ' <i>Rapport d'étape de Mise en place_Micro Crédit_Nahouri_with comments</i> '.
Value(s) applied	Indicator #1: 0 Number Indicator #2: 0 Euros Indicator #3: 39,496 Euros
Measurement methods and procedure	The measurement of all the indicators are based on quantitative information collected in the reports regarding the microcredit scheme.
Monitoring frequency	After each implementation phase of the microcredit scheme
QA/QC procedures	The data is analyzed in the reports regarding the microcredit scheme made available for review.
Purpose of data	Calculation of the parameters Indicator #1: Number of women benefits from micro credit scheme Indicator #2: Total benefit of income generation activities finances from micro credit scheme Indicator #3: % Amount of saving on fuel cost by women
Additional comment	The parameters are not yet available as the amount granted to leader women was provided after the monitoring period (February 2021). Hence no claim can be done for this monitoring period which ended in December 2021. Although, evidence that the microcredit scheme has started during the first monitoring period (creation of management committees or COGES) can be found in documents:

- 'PV de Bourou'
- 'PV de Bourou'
- 'PV de Douabié'
- 'PV de Kassiri'
- 'PV de Kassola'
- 'PV de Langouerou'
- 'Protocole de Bourou'
- 'Protocole de Douabié'
- 'Protocole de Kassiri'
- 'Protocole de Kassola'
- 'Protocole de Langouerou'

For the next monitoring period, the number of women who beneficiate from microcredit is already available (553), though it is impossible to determine the benefit resulting from Income Generating Activities managed by the leader women (Monitrice endogène) and made possible thanks to the granted amount. This information will be available in the next monitoring report as the beneficiaries will make use the granted money.

A total of 11,000,000 FCA or 16,765 € has been granted to 553 leader women within 20 villages (9 in the municipality of Pô and 11 in the municipality of Tiébélé). The following tables summarize the details regarding the microcredit scheme implemented after this monitoring period (February 2021).

- *Municipality of Pô*

<b>Villages</b>	<b>Number of Leader women</b>	<b>Granted amount (FCFA)</b>	<b>Average granted amount per Leader women</b>
<b>Gougogo</b>	25	550,000	15,000
<b>Yaro</b>	27	550,000	20,000
<b>Adongo</b>	30	550,000	20,000
<b>Bourou</b>	20	550,000	27,500
<b>Badongo</b>	41	550,000	13,000
<b>Langouerou</b>	34	550,000	16,000
<b>Pouknyan</b>	28	550,000	15,000
<b>Tiakane</b>	26	550,000	20,000
<b>Songo 1</b>	28	550,000	15,000

- *Municipality of Tiébélé*

Villages	Number of Leader women	Granted amount (FCFA)	Average granted amount per Leader women
<b>Kaya-Korso</b>	28	550,000	15,000
<b>Lo-moulnia</b>	28	550,000	15,000
<b>Kaya-Navio</b>	28	550,000	15,000
<b>Kaya-Fabolo</b>	28	550,000	15,000
<b>Douabié</b>	18	550,000	30,000
<b>Kassola</b>	19	550,000	28,000
<b>Ballerbié2</b>	33	550,000	16,000
<b>Tiyalo</b>	29	550,000	17,000
<b>Idenia-Kora</b>	24	550,000	22,000
<b>Coumpougbié</b>	30	550,000	18,000
<b>Kassiri</b>	29	550,000	28,000

Relevant SDG Indicator	SDG 7, Affordable and clean energy
<b>Data/ Parameter</b>	<b>Number of F3PA efficient cookstoves disseminated for the group of VPA's</b>
Unit	Number
Description	Number of F3PA efficient cookstoves included in the project database for project scenario p
Source of data	Project database. See document ' <i>GS1340_VPA14-15-16-17_DR_ICS_20210401</i> '.
Value(s) applied	22,395
Measurement methods and procedure	The project database provides a list of end-users with number of F3PA efficient cookstoves per end-user.
Monitoring frequency	Continuous
QA/QC procedures	The data is analyzed in the monitoring report and Project database is made available for review.
Purpose of data	Calculation of the parameter "Number of F3PA efficient cookstoves disseminated"
Additional comment	It is foreseen that each household will have at least two F3PA efficient cookstoves.

Relevant SDG Indicator	SDG 13, Climate action
<b>Data/ Parameter</b>	<b>U<sub>p,1</sub></b>
Unit	Percentage
Description	Usage rate in project scenario p during year 1

Source of data	Annual usage/monitoring survey. See document 'GS1340_MS_VPA_14-15-16-17_MP1_20210419'.
Value(s) applied	98.0%
Measurement methods and procedure	The measurement of the usage rate is based on qualitative information collected in the usage/monitoring survey. A question concerning the current use of the technology is asked to each end user of the sample and is validated by the observation of the surveyor to determine the usage rate of each technology age category.
Monitoring frequency	Annual
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	Calculation of emission reductions
Additional comment	<p>A usage parameter is derived for each age group of project cookstoves being credited. The usage survey will determine if the project cookstoves can be considered as 'in use' or 'not in use' and if the project cookstoves are in 'good condition' or 'not in good condition'.</p> <p>The record keeping system of the VPA is at household level (with household number) for which all baseline cookstove set(s) (comprising of several traditional three stone cookstoves for domestic use) have been replaced by project cookstove set(s). Cookstove set(s) within a household can only be considered 'in use' if all the cookstoves in the set(s) (in polygamous households all cookstoves of all cookstove sets of all women in the household) are being used. Similarly, cookstove set(s) can only be considered in 'good condition' as long as all cookstoves within the cookstove set(s) (in polygamous households all cookstoves of all cookstove sets of all women in the household) are in a 'good condition'.</p> <p>See document 'GS1340_MS_VPA_14-15-16-17_MP1_20210419'.</p>

Relevant SDG Indicator	SDG 13, Climate action
<b>Data/ Parameter</b>	<b>N<sub>p,1</sub></b>
Unit	Number of households included in the project (Units), based on days of usage of age group 0-1 during the monitoring period related to one year.
Description	Household in the project database for project scenario p through year i for which all baseline cookstove set(s) (comprising of several traditional three stone cookstoves for domestic use) have been replaced by project cookstove set(s).
Source of data	Project database. See document 'GS1340_DR_MP1_VPA-14-15-16-17_20210401_Recent date'.
Value(s) applied	VPA 14: 2,179 VPA 15: 2,140

	VPA 16: 2,165 VPA 17: 548  Total : 7,032
Measurement methods and procedure	For the determination of the number of usage days at household level for age group 0-1 during the corresponding monitoring period, the latest start day of use of all constructed F3PA efficient cookstoves within the household will be taken in order to have conservative approach. Number of households included in the project (Units) are calculated based on days of usage of age group 0-1 during the corresponding monitoring period related to one year.
Monitoring frequency	Annual
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	Calculation of emission reductions
Additional comment	A part of the households in the project area of the VPA are polygamous. Each wife of the household included in the carbon project must have at least two F3PA efficient cookstoves. This is a local cooking requirement as one is for the Mush "Tô", the other for the sauce "Sauce". Additional cookstoves could be used for boiling water or preparing the soup. All the traditional three stone cookstoves for domestic use will be replaced by the F3PA efficient cookstoves. This means that according to the needs of the household, an un-predetermined number of project cookstoves will be constructed and used at household level. As the quantity of firewood consumed in the baseline is determined at household level, the number of households will be monitored instead of project cookstoves to determine the emissions reductions. Women are trained by the Tiipaalga instructors or leader women to build the project cookstoves themselves using local materials according to a strict construction protocol. In tight collaboration of the project coordinator, the instructor and the leader women the logistical management, quality assurance of the project cookstoves according to the construction protocol and the management of the project database recording all constructed project cookstoves will be ensured. See document 'GS1340_DR_MP1_VPA-14-15-16-17_20210401_Recent date'

<b>Relevant SDG Indicator</b>	<b>SDG 13, Climate action</b>
<b>Data/ Parameter</b>	<b>DF<sub>n</sub></b>
Unit	Fraction
Description	Discount factor to account for efficiency loss of project stoves

Source of data	Gold Standard Simplified Methodology for Efficient Cookstoves
Value(s) applied	Default value: 0.99 i.e., 1 % efficiency loss per year
Measurement methods and procedure	N.A.
Monitoring frequency	N.A.
QA/QC procedures	N.A.
Purpose of data	Calculation of emission reductions
Additional comment	N.A.

Relevant SDG Indicator	SDG 13, Climate action
<b>Data/ Parameter</b>	<b>DF<sub>b,stove,1</sub></b>
Unit	Percentage
Description	Discount factor to account for the baseline stove use in project scenario p during the year 1
Source of data	Monitoring data. See document ' <i>GS1340_MS_VPA_14-15-16-17_MP1_20210419</i> '.
Value(s) applied	0.75%
Measurement methods and procedure	The measurement of the discount factor to account for the baseline stove use is based on qualitative information collected in the usage/monitoring survey. A question concerning the current use of the baseline technology is asked to each end user of the sample and is validated by the observation of the surveyor in order to determine the discount factor to account for the baseline stove use in project scenario p of each technology age category.
Monitoring frequency	Annual
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	Calculation of emission reductions
Additional comment	<p>The discount factor for the baseline-stove is determined based on the number of meals cooked using the baseline stove. The required information is captured through sample surveys carried out following a random sampling approach for age-group 0-1 of the project stove. The impact of seasonal variation on use of baseline stove is considered as part of the monitoring survey. The survey format for sample question to capture this information is described in the Monitoring Plan.</p> <p>In case of polygamous households the discount factor is determined for each cookstove set and the highest value of all cookstove sets within the household is used as representative discount factor for the household.</p> <p>See document '<i>GS1340_MS_VPA_14-15-16-17_MP1_20210419</i>'.</p>

Relevant SDG Indicator	SDG 13, Climate Action
Data/ Parameter	Number of tCO2e reduced by the project
Unit	Ton of CO2e
Description	Number of tCO2e reduced thanks to the implementation of the project during the corresponding monitoring period.
Measured/calculated/default	Measured
Source of data	ER calculations: see document 'GS 1340 - VPA 14-15-16-17-ER_MPI'
Value(s) of monitored parameter	VPA 14: 9,324 tCO2e VPA 15: 9,156 tCO2e VPA 16: 9,262 tCO2e VPA 17: 2,344 tCO2e  Total : 30,086 tCO2e
Monitoring equipment	N/A
Measuring/reading/recording frequency	Annual
Calculation method (if applicable)	See section E.4
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	Calculation of emission reductions
Additional comments	N.A.

### D.3. Comparison of monitored parameters with last monitoring period

N.A.

The present report is for the first monitoring period.

### D.4. Implementation of sampling plan

In parallel with the distribution of the F3PA efficient cookstoves, and as per monitoring plan in the respective registered VPA-DD's (VPA-14 to 17), tiipaalga conducted the following monitoring activities:

Date	Activity	Purpose
Ongoing	Project database	Establish total distribution record to track number of households for which all baseline cookstove set(s) (comprising of several traditional three stone cookstoves for domestic use) have been replaced by project cookstove set(s)
From 07/04/2021 To 11/04/2021	Monitoring survey	(i) To establish single usage rate factor of age group 0-1 based on if the project cookstoves can be

		<p>considered as 'in use' or 'not in use' and if the project cookstoves are in 'good condition' or 'not in good condition';</p> <p>(ii) To establish single discount factor age group 0-1 to account for the baseline stove use.</p> <p>(iii) To measure parameters regarding SDG 1, SDG 3 and SDG 5.</p>
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The parameters which need to be monitored through surveys for the VPA are (i)  $U_{p,y}$  Usage rate in project scenario p during year y; and (ii)  $DF_{b,stove,y}$  Discount factor to account for the baseline stove use in project scenario p during the year y. A single survey with cross sampling of households has been undertaken using a single random sampling plan. The sample size is calculated for the population of VPA-14 to 17 using the sampling guidelines described below.

The number of households of which each wife of the household (when polygamous) has replaced all traditional three stones cookstoves for domestic use with project cookstoves, is recorded in the project database (see data base records file). Only the households recorded in the database are part of the project activity.

Since the project activities started in February 2020, there is only one age group, i.e. 0-1 age group. The start of the crediting period of each household is considered as the latest installation date of all stoves within the cooking sets of the different wives within the household (see document: 'GS1340\_DR\_MP1\_VPA-14-15-16-17\_20210401\_Recent date'). For each household the number of technology-days during MP1 are calculated per age group: (i) age group 0-1 (i.e. installation date + 365 days). The number of households per age-group are determined after cumulation of the technology-days per age group of the households in the project database divided by the number of days in a year, i.e. 365 days.

The minimum household sample size of each age group is determined according to the following guidelines (according the Gold Standard Simplified Methodology for Efficient Cookstoves):

- Project target population < 300: Minimum sample size 30;
- Project target population 300 to 1000: Minimum sample size 10 % of group size;
- Project target population > 1000: Minimum sample size 100.

As the number of recorded households for VPA-14 to VPA-17 per age-group is more than 1,000, the minimum sample size per age-group is 100. For this monitoring survey the household size was set at 150 households (see file 'GS1340\_VPA 14-15-16-17 Sampling\_MP1'). The method of selecting households for the sample list for the monitoring survey is random sampling using the random functionality *RAND()* in Excel. For all parameters that are monitored via sampling it is understood that only the age of the project cookstove has an influence. Therefore, no geographic representativeness is deemed necessary for the selection of users participating in the sample groups. The monitoring surveys are performed by user interviews. Only people older than 18 years

are interviewed. The results of the survey are found in document: 'GS1340\_MS\_VPA\_14-15-16-17\_MP1\_20210419'.

This file contains the following data in worksheet "Group 2":

- Identifier (Unique internal ID number) which is the unique key of household info;
- Identification data per wife: name, picture of wife with it stoves;
- Data on stoves used per wife: size of stoves, installation dates of each stove, location of stoves, frequency of usage, condition of stove ...;
- Data on cooking habits during dry and wet season;
- Data related to sustainable indicators.

Based on this information the usage rate  $U_{p,y}$  is calculated per household in column S and the discount factor to account for the baseline stove use  $DF_{b,stove,y}$  per households in column AT. The worksheet "Analysis" contains the evaluated parameters usage rate  $U_{p,y}$  and discount factor to account for the baseline stove use  $DF_{b,stove,y}$  per age group.

Out of the 150 at random selected households for the age group 0-1, two (2) households have not been surveyed for the following reasons:

- VPA 14 - Alice - 40179 - Nion Welo Francis: The wife divorced her husband and left home, leaving her F3PAs without any maintenance.
- VPA 15 - Azra - 2773 - ABALE Tangahiri: The wife divorced her husband, the new wife has not rebuilt the F3PA yet.

For these 2 households, the usage rate  $U_{p,1}$  of 0% has been considered. The surveyed households are presented with pictures of stove users and stoves in the document: 'GS1340\_VPA14-15-16-17\_list of surveyed households\_MP1\_AG0-1'.

The following points were considered when evaluating the usage rate  $U_{p,y}$ :

- All project cookstoves within the sample are assessed if they are still operational. If one stove user doesn't use any of its project cookstoves, the corresponding household is considered as drop-off;
- The working conditions of project cookstoves are evaluated on the status (i) Green: the stove is in good working conditions, (ii) Orange: the stove is in acceptable working conditions, but needs some maintenance activities; and (iii) Red: the stove is not working well, and needs to be reconstructed (see section C for more details). A household with at least one red project cookstove is considered as a drop-off;
- If a stove-user migrated even for a temporary period, the corresponding household is considered as a drop-off.

Based on the collected data during the survey for monitoring period 1 the usage rate  $U_{p,1}$  of age group 0-1 is evaluated at 98.00%. In total 3 households out of the 150

households surveyed had a usage rate of 0% due to too bad condition of at least one F3PA efficient cookstove (status red), no indication of usage, migration of the household or broken F3PA efficient cookstoves. All other project cookstoves were used and in operational conditions.

The discount factor to account for the baseline stove use is calculated based on the number of meals that have been cooked with the baseline stove during the monitoring period. The impact of dry and wet season on the baseline stove use has been evaluated. The baseline stove usage has been questioned in the survey in two ways (see document 'GS1340\_MS\_VPA\_14-15-16-17\_MP1\_20210419') (i) relative based on a week usage during dry and wet season (column AN till column AV); (ii) absolute based on total number of usages during dry and wet season (column BB and BC). The following points were considered when evaluating the discount factor to account for the baseline stove use  $DF_{b, stove, y}$ :

- The wet season starts on the 1st of June and ends the 31<sup>nd</sup> of October, which is 152 days;
- Usage of baseline stove during wet and dry season has been surveyed, as well as the number of meals cooked during dry and wet season;
- Based on the number of meals cooked with the baseline cookstove compared to the number of cooked meals, the baseline usage fraction is calculated per stove user. In the case of more than one stove user per household, the highest value will be taken in order to identify the baseline cookstove usage at household level;
- In case the two ways of baseline usage reporting (relative on weekly basis and absolute) didn't match, the highest baseline usage has been calculated for the corresponding household;
- The discount factor for the baseline stove use is based on the average baseline stove use fraction of all the households within the sample;
- If a household has dropped off when evaluating the usage rate, it is not considered when calculating the average baseline stove use fraction;
- A conservative approach has been considered when evaluating the number of meals cooked with the baseline stove.

Based on the collected data during the survey, the baseline stove usage fraction has been evaluated at 0.75% for age group 0-1. This means that, on average, approximately 0.75 meals out of 100 meals are cooked with the baseline stove.

## SECTION E. CALCULATION OF SDG IMPACTS

### **E.1. Calculation of baseline value or estimation of baseline situation of each SDG Impact**

#### *a) SDG 1, No poverty*

Not applicable, the direct outcome is calculated, see section E.4.

*b) SDG 3, Good health and well-being*

Not applicable, the direct outcome is calculated, see section E.4.

*c) SDG 4, Quality Education*

Not applicable, the direct outcome is calculated, see section E.4.

*d) SDG 5, Gender equality*

Not applicable, the direct outcome is calculated, see section E.4.

*e) SDG 7, Affordable and clean energy*

Not applicable, the direct outcome is calculated, see section E.4.

*f) SDG 13, Climate Action*

The methodology directly provides equation for emission reductions (without separate baseline, projector leakage emission reduction equations). See section E.4. for the calculation of the emission reductions.

## **E.2. Calculation of project value or estimation of project situation of each SDG Impact**

*a) SDG 1, No poverty*

Not applicable, the direct outcome is calculated, see section E.4.

*b) SDG 3, Good health and well-being*

Not applicable, the direct outcome is calculated, see section E.4.

*c) SDG 4, Quality Education*

Not applicable, the direct outcome is calculated, see section E.4.

*d) SDG 5, Gender equality*

Not applicable, the direct outcome is calculated, see section E.4.

*e) SDG 7, Affordable and clean energy*

Not applicable, the direct outcome is calculated, see section E.4.

*f) SDG 13, Climate Action*

The methodology directly provides equation for emission reductions (without separate baseline, projector leakage emission reduction equations). See section E.4. for the calculation of the emission reductions.

## **E.3. Calculation of leakage**

*a) SDG 13, Climate Action*

As defined under The Gold Standard Simplified Methodology for Efficient Cookstoves, the net emission reductions (ER<sub>y</sub>) for a micro-scale programme of activities (mPOA) need to be discounted by a factor of 0.95 to account for leakages related to non-renewable biomass saved by the project activity.

## **E.4. Calculation of net benefits or direct calculation for each SDG Impact**

a) *SDG 1, No poverty*

**Number of leader women (Monitrice endogène) who benefit from microcredit** = Number of leader women (Monitrice endogène) who benefit from microcredit during the monitoring period.

See document : '*Rapport d'étape de Mise en place\_Micro Crédit\_Nahouri\_with comments*'.

**Total benefit from Income Generating activities financed through the microcredit scheme for the group of VPA's** = total amount in FCFA or € of benefit generated by Income Generating Activities which are managed by the leader women (Monitrice endogène) and funded by the microcredit scheme.

Not presented yet as the granted money was provided at the end of the monitoring period. Hence, the estimation of the benefits from Income Generating Activities will be available from next monitoring period.

**Total estimated amount saved by stove users on wood fuel purchase for the group of VPA's** = Total estimated amount in FCFA or € saved by the stove users on wood fuel purchase during the monitoring period.

- i. **School fees<sub>p</sub>**: Proportion of stove users using their saved money to school fees;
- ii. **Purchase of medical drugs<sub>p</sub>**: Proportion of stove users using their saved money to purchase of medical drugs;
- iii. **Purchase of food<sub>p</sub>**: Proportion of stove users using their saved money to
- iv. **Investment for field crops<sub>p</sub>**: Proportion of stove users using their saved money to investments for field crops;
- v. **Purchase of equipments<sub>p</sub>**: Proportion of stove users using their saved money to purchase of equipments;
- vi. **Income generating activities<sub>p</sub>**: Proportion of stove users using their saved money to income generating activities;
- vii. **Savings<sub>p</sub>**: Proportion of stove users using their saved money to savings.

See document: '*GS1340\_MS\_VPA\_14-15-16-17\_MP1\_20210419*' Tab 'Project SDGs' and Tab 'Analysis' lines 239 to 245.

b) *SDG 3, Good health and well-being*

**Smoke level reduction** = (Number of stove users perceiving less smoke since the implementation of F3PA efficient cookstoves) / (Number of respondents)

**Incidence of coughing reduction** = (Number of stove users perceiving less incidence of coughing since the implementation of F3PA efficient cookstoves) / (Number of respondents)

**Incidence of respiratory illness reduction** = (Number of stove users perceiving less incidence of respiratory illnesses since the implementation of F3PA efficient cookstoves) / (Number of respondents)

**Incidence of itchy eyes reduction** = (Number of stove users perceiving less incidence of itchy eyes since the implementation of F3PA efficient cookstoves) / (Number of respondents)

See document: 'GS1340\_MS\_VPA\_14-15-16-17\_MP1\_20210419' Tab 'Project SDGs'.

c) *SDG 4, Quality education*

**Number of trainings initiatives for staff involved in the programme** = Number of trainings initiatives for staff involved in the programme during the monitoring period

See document : 'Compte rendu de formation des enqueteurs verification An1\_with comments'.

**Number of workshops carried out for women for the group of VPA's** = Number of workshops carried out for women during the monitoring period

See documents: 'synthèse des AGV AGVS et la formation des ME dans les 47 villages commune de Pô et tiebele - reviewed\_with comments' and participants lists.

d) *SDG 5, Gender equality*

**Gender Responsive Indicators under Social Empowerment Goals – Rest and Leisure**

**Average time saving (in hours) per woman per week** = Average time saving (in hours) on wood fuel collection per woman per week during the monitoring period.

Activities carried out by women during saved time:

- i) **Domestic tasks<sub>p</sub>** = (Number of women using their saved time to do domestic tasks) / (Number of women considering they save time thanks to the F3PA efficient cookstoves)
- ii) **Income generating activities<sub>p</sub>** = (Number of women using their saved time to do income generating activities) / (Number of women considering they save time thanks to the F3PA efficient cookstoves)

- iii) **Field labour<sub>p</sub>** = (Number of women using their saved time to do field labour) / (Number of women considering they save time thanks to the F3PA efficient cookstoves)
- iv) **Gardening<sub>p</sub>** = (Number of women using their saved time to do gardening) / (Number of women considering they save time thanks to the F3PA efficient cookstoves)
- v) **Participation to a literacy program<sub>p</sub>** = (Number of women using their saved time to participate to a literacy program) / (Number of women considering they save time thanks to the F3PA efficient cookstoves)
- vi) **Community work<sub>p</sub>** = (Number of women using their saved time to do community work) / (Number of women considering they save time thanks to the F3PA efficient cookstoves)
- vii) **Doning nothing<sub>p</sub>** = (Number of women using their saved time to participate to do nothing) / (Number of women considering they save time thanks to the F3PA efficient cookstoves)
- viii) **Religious activities<sub>p</sub>** = (Number of women using their saved time to participate to religious activities) / (Number of women considering they save time thanks to the F3PA efficient cookstoves)
- ix) **Leisure<sub>p</sub>** = (Number of women using their saved time to participate to do leisure) / (Number of women considering they save time thanks to the F3PA efficient cookstoves)

See document: 'GS1340\_MS\_VPA\_14-15-16-17\_MP1\_20210419' Tab 'Project SDGs' and Tab 'Analysis' lines 216 to 224.

#### **Gender Responsive Indicators under Social Empowerment Goals – Applied Skills and training**

Number of person (% women) receive training for the construction of improved cook stoves and enhanced their skill

See document: 'synthèse des AGV AGVS et la formation des ME dans les 47 villages commune de Pô et tiebele - reviewed\_with comments'.

#### **Gender Responsive Indicators under Economic Empowerment Goals – Income & Expenditure**

- Indicator 1 - Number of women benefits from micro credit scheme
- Indicator 2 - Total benefit of income generation activities finances from micro credit scheme
- Indicator 3 - % Amount of saving on fuel cost by women

See document: 'Rapport d'étape de Mise en place\_Micro Crédit\_Nahouri\_with comments' e) SDG 7, Affordable and clean energy

**Number of F3PA efficient cookstoves disseminated for the group of VPA's**  
= Number of F3PA efficient cookstoves included in the project database for project scenario p

See document: 'GS1340\_VPA14-15-16-17\_DR\_ICs\_20210521'.

f) *SDG 13, Climate Action*

The methodology directly provides equation for emission reductions (without separate baseline, projector leakage emission reduction equations). The emission reduction for the VPA are calculated using the following equation.

$$ER_y = \sum_{0 \text{ to } 1}^{x \text{ to } y} N_{p,y} * P_y * U_{p,y} * (f_{NRB,y} * EF_{b,fuel,CO_2} + EF_{b,fuel,nonCO_2}) * (1 - DF_{b,Stove,y})$$

Where

$N_{p,y}$	Number of households with project cookstoves of each age group operational in the year y
$P_y$	Quantity of firewood that is saved in the year y (tones per household in year y)
$U_{p,y}$	Usage rate for project cookstoves in year y, based on adoption rate and drop off rate revealed by usage surveys (fraction)
$f_{NRB,y}$	Factional non-renewability status of wood fuel during year y
$EF_{b,fuel,CO_2}$	CO2 emission factor of firewood that is substituted or reduced
$EF_{b,fuel,nonCO_2}$	Non CO2 emission factor of firewood that is substituted or reduced
$DF_{b,Stove,y}$	Usage of baseline cookstove during the year y (fraction) in project scenario
X	y-1
Y	Year of the crediting period

**Determination of quantity of biomass saved (P<sub>y</sub>):**

Quantity of firewood that is saved (P<sub>y</sub>) is estimated using the following equation:

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

Where:

$P_y$	Quantity of firewood that is saved in the year y (tones per household in year y)
$B_{b,y}$	Quantity of firewood consumed in baseline scenario during year y (tones per household per year)
$\eta_{p,y}$	Efficiency of project cookstove in year y (fraction)
$\eta_b$	Efficiency of the baseline cookstove being replaced (fraction). 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  
 y Year of the crediting period

**Determination of quantity of fire wood consumed in the baseline (B<sub>b,y</sub>):**

The firewood consumed is the estimated average annual consumption of firewood per household (tonnes/year), which may be derived using option (d) of the methodology: Field Performance Test. The baseline performance field test (BFT) measures real, observed performance of the baseline cookstove in the field. Consumption is measured with a representative sample of end users under each defined baseline scenario using the baseline cookstove.

The Baseline Field Performance Test<sup>6</sup> has been conducted between 02/02/2020 and 20/02/2020 in 10 randomly selected villages from the 80 villages located in the project boundary, ie the municipalities of Po, Tiébélé and Guiaro. During this test, the wood consumption of the households for cooking has been measured for three consecutive days. From this survey, it appears that the firewood consumption for cooking in the baseline is 3.94 tonnes per household per year.

**Determination of project cookstove efficiency (η<sub>p,y</sub> and η<sub>p</sub>):**

Efficiency of project cookstove in year y (η<sub>p,y</sub>) is estimated as follows:

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

Where

η <sub>p,y</sub>	Efficiency of project cookstove in year y (fraction)
η <sub>p</sub>	Efficiency of project cookstove (fraction) determined at the start of the project activity
DF <sub>η</sub>	Discount factor to account for efficiency loss of project cookstove per year of operation (fraction)
0.94	Adjustment factor to account for uncertainty related to project cookstove efficiency test

See document: 'GS 1340 - VPA 14-15-16-17-ER\_MP1\_v1.0'.

SDG	SDG Impact	Baseline estimate	Project estimate	Net benefit
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<sup>6</sup> See document: 'GS1340\_Tiipaalg\_VPA14-17\_BFPT\_20200515\_Analysis\_v1.0'

		Year 2020: VPA 14: 9,324 tCO2e VPA 15: 9,156 tCO2e VPA 16: 9,262 tCO2e VPA 17: 2,344 tCO2e  Total : 30,086 tCO2e
13	Number of tCO2e reduced by the project	
1	Parameter #1: Number of leader women (Monitrice endogène) who benefit from microcredit  Parameter #2: total amount in FCFA or € of benefit generated by Income Generating Activities which are managed by the leader women (Monitrice endogène) and funded by the microcredit scheme	Parameter #1: 0  Parameter #2: 0€
1	Total estimated amount saved by stove users on wood fuel purchase for the group of VPA's	39,496 €
3	Smoke level reduction Incidence of coughing reduction Incidence of respiratory illness reduction Incidence of itchy eyes reduction	100% 100% 100% 100%
4	Number of trainings initiatives for staff involved in the programme	1
4	Number of workshops carried out for women for the group of VPA's	142
5	Average time saving (in hours) per woman per week	1.7
5	Number of person receive training for the construction of improved cook stoves and enhanced their skill	14,448 (92% of women)
5	Number of women benefits from micro credit scheme	0
5	% Amount of saving on fuel cost by women	39,496 €
7	Number of F3PA efficient cookstoves disseminated for the group of VPA's	22,395

**E.5. Comparison of actual SDG Impacts with estimates in approved PDD**

SDG	Values estimated in ex ante calculation of approved PDD for this monitoring period	Actual values <sup>7</sup> achieved during this monitoring period
13	Year 2020: VPA 14: 5,993 tCO <sub>2</sub> e VPA 15: 5,993 tCO <sub>2</sub> e VPA 16: 5,993 tCO <sub>2</sub> e VPA 17: 5,993 tCO <sub>2</sub> e <b>Total : 23,972 tCO<sub>2</sub>e</b>	Year 2020: VPA 14: 9,324 tCO <sub>2</sub> e VPA 15: 9,156 tCO <sub>2</sub> e VPA 16: 9,262 tCO <sub>2</sub> e VPA 17: 2,344 tCO <sub>2</sub> e <b>Total : 30,086 tCO<sub>2</sub>e</b>
1	Parameter #1: Number of leader women (Monitrice endogène) who benefit from microcredit: <b>2,400</b>  Parameter #2: total amount in FCFA or € of benefit generated by Income Generating Activities which are managed by the leader women (Monitrice endogène) and funded by the microcredit scheme: <b>0 €</b>	Parameter #1: Number of leader women (Monitrice endogène) who benefit from microcredit: <b>0</b>  Parameter #2: total amount in FCFA or € of benefit generated by Income Generating Activities which are managed by the leader women (Monitrice endogène) and funded by the microcredit scheme: <b>0€</b>
1	Total estimated amount saved by stove users on wood fuel purchase for the group of VPA's: <b>26,280€</b>	Total estimated amount saved by stove users on wood fuel purchase for the group of VPA's: <b>40,927€</b>
3	Smoke level reduction: <b>&gt;90%</b> Incidence of coughing reduction: <b>&gt;90%</b> Incidence of respiratory illness reduction: <b>&gt;90%</b> Incidence of itchy eyes reduction: <b>&gt;90%</b>	Smoke level reduction: <b>100%</b> Incidence of coughing reduction: <b>100%</b> Incidence of respiratory illness reduction: <b>100%</b> Incidence of itchy eyes reduction: <b>100%</b>
4	Number of trainings initiatives for staff involved in the programme: <b>1</b>	Number of trainings initiatives for staff involved in the programme: <b>1</b>
4	Number of workshops carried out for women for the group of VPA's: <b>80</b>	Number of workshops carried out for women for the group of VPA's: <b>142</b>

<sup>7</sup> Whenever emission reductions are capped, both the original and capped values used for calculations must be transparently reported. Use brackets to denote original values.

5	Average time saving (in hours) per woman per week: <b>1.7 hours</b>	Average time saving (in hours) per woman per week: <b>1.7 hours</b>
7	Number of F3PA efficient cookstoves disseminated for the group of VPA's: <b>10,000</b>	Number of F3PA efficient cookstoves disseminated for the group of VPA's: <b>22,395</b>

E.5.1. Explanation of calculation of value estimated ex ante calculation of approved PDD for this monitoring period

Remarks regarding SDGs indicators calculation:

- SDG 1 Number of leader women (Monitrice endogène) who benefit from microcredit: although some activities related to the implementation of the microcredit scheme were initiated during this monitoring period (creation of management committees or COGES), the amounts granted to leader women (or “Monitrices endogènes”) were provided slightly after this monitoring period (February 2021). Hence, no leader woman beneficiate from microcredit during MP1.
- SDG 5 Average time saving (in hours) per woman per week : Based on the indication of wood collection frequency in the answers of the monitoring survey, a prior estimation of 4.2 hours average time saving per week was found, hence a reduction of 72% of the time spent for wood fuel collection. To remain conservative, PD chose not to apply this value as it seems overstated from the reality. Therefore, the reduction factor suggested in the PDD was chosen for this monitoring period (30% reduction or time saving of 1.7 hours/week). For the next monitoring period, PD shall revise the questions of the monitoring survey to ensure that the information regarding the parameter “Average time saving (in hours) on wood fuel collection” will be made available for reporting in a more consistent way.

**E.6. Remarks on increase in achieved SDG Impacts from estimated value in approved PDD**

- SDG 13 Number of tCO2e reduced by the project: In the PDD calculations, it was expected that 60% of the households included in the project would be equipped with F3PA by the end of the first year. Due to the keen enthusiasm of the local communities for the project, this parameter was underestimated. For the group of VPA's, the parameter  $N_{p,1}$  is 7,032 units compared to 6,000 the originally estimated value from PDD. Coupled with the higher usage rate ( $U_{p,1} = 98\%$  vs 95% in PDD) and lower discount factor to account for the baseline stove ( $DF_{b,stove,1} = 0.75\%$  vs 2% in PDD); the VER are consequently higher than ex-ante estimations.

Source	N <sub>p,y</sub>	U <sub>p,y</sub>	DF <sub>b</sub>	VER
PDD	6,000	95%	2%	23,993
MR	7,032	98%	0.75%	30,086

Table 2 Difference between VER estimations (PDD vs. MR1)

- SDG 1 Total estimated amount saved by stove users on wood fuel purchase for the group of VPA’s: based on the information collected during the monitoring survey, the average yearly amount spent on purchase of wood in the baseline scenario was higher than what was estimated during the baseline survey in PDD (40,126 FCFA per year per household purchasing wood compared to 23,412 FCFA in PDD). On the other hand, a lower proportion of households declares purchasing wood (10% compared to 25% in PDD). The combination of those two considerations explains the difference with ex-ante calculations.
- SDG 7 Number of F3PA efficient cookstoves disseminated for the group of VPA’s: due to the higher adoption rate of the project technology in the first year of the project, the total number of disseminated F3PA cookstoves is higher the provisions presented in PDD.

## SECTION F. SAFEGUARDS REPORTING

Not applicable.

No safeguarding principles were added to the monitoring plan.

## SECTION G. STAKEHOLDER INPUTS AND LEGAL DISPUTES

### **G.1. List all Inputs and Grievances which have been received via the Continuous Input and Grievance Mechanism together with their respective responses/mitigations.**

A copy of the grievance expression process book is available in document : ‘*Grievance book\_picture 2021\_with comments*’. Overall, the contributions of the stakeholders are positive and they expressed their enthusiasm regarding the project and its development.

### **G.2. Report on any stakeholder mitigations that were agreed to be monitored.**

Not applicable. No stakeholder mitigations were agreed to be monitored.

### **G.3. Provide details of any legal contest that has arisen with the project during the monitoring period**

No legal contest or dispute has arisen.

## Revision History

Version	Date	Remarks
1.1	14 October 2020	<p>Hyperlinked section summary to enable quick access to key sections</p> <p>Improved clarity on Key Project Information</p> <p>Section for POA monitoring</p> <p>Forward action request section</p> <p>Improved Clarity on SDG contribution/SDG Impact term used throughout</p> <p>Clarity on safeguard reporting</p> <p>Clarity on design changes</p> <p>Leakage section added for VER/CER projects</p> <p>Addition of Comparison of monitored parameters with last monitoring period</p> <p>Provision of an <a href="#">accompanying Guide</a> to help the user understand detailed rules and requirements</p>
1.0	10 July 2017	Initial adoption