

TEMPLATE

# MONITORING REPORT

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PUBLICATION DATE **14.10.2020**

VERSION **v. 1.1**

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

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This document contains the following Sections

Key Project Information

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## 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/VPAs (i.e. non compliance check)</b> | <ul style="list-style-type: none"> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-01 - tiipaalgá F3PA cookstoves in Bam and Loroum (GS2456)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-02 - tiipaalgá F3PA cookstoves in Bam and Loroum (GS3516)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-03 - tiipaalgá F3PA cookstoves in Bam and Loroum (GS3517)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-04 - tiipaalgá F3PA cookstoves in Bam and Loroum (GS3518)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-05 - tiipaalgá F3PA cookstoves in Bam and Loroum (GS3519)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-06 - tiipaalgá F3PA cookstoves in Bam and Loroum (GS3520)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-07 - tiipaalgá F3PA cookstoves in Bam and Loroum (GS3521)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-08 - tiipaalgá F3PA cookstoves in Bam and Loroum (GS3522)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-09 - tiipaalgá F3PA cookstoves in Bam and Loroum (GS3523)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-10 - tiipaalgá F3PA cookstoves in Bam and Loroum (GS3524)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-11– Tiipaalgá – F3PA cookstoves in Kourwéogo (GS6152)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-12– Tiipaalgá – F3PA cookstoves in Kourwéogo (GS6419)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-13– Tiipaalgá – F3PA cookstoves in Kourwéogo (GS6420)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso - VPA-14 – Improved cookstove F3PA project in Nahouri (GS10778)</li> </ul> |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|  | <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> <li>- GS1340 - Efficient cookstoves in Burkina Faso – tiipaalga F3PA cookstoves in Center-South Protected Areas - VPA-18 (GS10922)</li> <li>- GS1340 - Efficient cookstoves in Burkina Faso – tiipaalga F3PA cookstoves in Center-South Protected Areas - VPA-19 (GS10923)</li> <li>- GS1340 - Efficient cookstoves in Burkina Faso – tiipaalga F3PA cookstoves in Center-South Protected Areas - VPA-20 (GS10924)</li> <li>- GS1340 - Efficient cookstoves in Burkina Faso – tiipaalga F3PA cookstoves in Center-South Protected Areas - VPA-21 (GS10925)</li> <li>- GS1340 - Efficient cookstoves in Burkina Faso – tiipaalga F3PA cookstoves in Center-South Protected Areas - VPA-22 (GS10926)</li> <li>- GS1340 - Efficient cookstoves in Burkina Faso – tiipaalga F3PA cookstoves in Center-South Protected Areas - VPA-23 (GS10927)</li> <li>- GS1340 - Efficient cookstoves in Burkina Faso – tiipaalga F3PA cookstoves in Center-South Protected Areas - VPA-24 (GS10928)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-25 – Solidagro F3PA cookstoves in Passoré (GS11070)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-26 – Solidagro F3PA cookstoves in Passoré (GS11071)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-27 – Solidagro F3PA cookstoves in Passoré (GS11072)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-28 – Solidagro F3PA cookstoves in Passoré (GS11073)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso - VPA-29 - Improved Cookstove F3PA project in Nahouri (GS11074)</li> </ul> |
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## Key Project Information

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|--------------------------|---------------------------------------------------------------------------------------------------------------------------|
| GS ID (s) of Project (s) | <ul style="list-style-type: none"> <li>- GS2456 (VPA-01)</li> <li>- GS3516 (VPA-02)</li> <li>- GS3517 (VPA-03)</li> </ul> |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------|

|                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                  | <ul style="list-style-type: none"> <li>- GS3518 (VPA-04)</li> <li>- GS3519 (VPA-05)</li> <li>- GS3520 (VPA-06)</li> <li>- GS3521 (VPA-07)</li> <li>- GS3522 (VPA-08)</li> <li>- GS3523 (VPA-09)</li> <li>- GS3524 (VPA-10)</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-01 - tiipaalgā F3PA cookstoves in Bam and Loroum (GS2456)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-02 - tiipaalgā F3PA cookstoves in Bam and Loroum (GS3516)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-03 - tiipaalgā F3PA cookstoves in Bam and Loroum (GS3517)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-04 - tiipaalgā F3PA cookstoves in Bam and Loroum (GS3518)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-05 - tiipaalgā F3PA cookstoves in Bam and Loroum (GS3519)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-06 - tiipaalgā F3PA cookstoves in Bam and Loroum (GS3520)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-07 - tiipaalgā F3PA cookstoves in Bam and Loroum (GS3521)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-08 - tiipaalgā F3PA cookstoves in Bam and Loroum (GS3522)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-09 - tiipaalgā F3PA cookstoves in Bam and Loroum (GS3523)</li> <li>- GS1340 Efficient cookstoves in Burkina Faso – VPA-10 - tiipaalgā F3PA cookstoves in Bam and Loroum (GS3524)</li> </ul> |
| <b>Version number of the PDD/VPA-DD (s) applicable to this monitoring report</b> | <ul style="list-style-type: none"> <li>- GS2456 (VPA-01): 10</li> <li>- GS3516 (VPA-02): 7</li> <li>- GS3517 (VPA-03): 7</li> <li>- GS3518 (VPA-04): 7</li> <li>- GS3519 (VPA-05): 7</li> <li>- GS3520 (VPA-06): 5</li> <li>- GS3521 (VPA-07): 5</li> <li>- GS3522 (VPA-08): 5</li> <li>- GS3523 (VPA-09): 5</li> <li>- GS3524 (VPA-10): 4</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Version number of the monitoring report</b>                                   | 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Completion date of the monitoring report</b>     | 16/03/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Date of project design certification</b>         | <ul style="list-style-type: none"> <li>- GS2456 (VPA-01): 10/11/2014</li> <li>- GS3516 (VPA-02): 21/10/2015</li> <li>- GS3517 (VPA-03): 21/10/2015</li> <li>- GS3518 (VPA-04): 21/10/2015</li> <li>- GS3519 (VPA-05): 21/10/2015</li> <li>- GS3520 (VPA-06): 21/10/2015</li> <li>- GS3521 (VPA-07): 21/10/2015</li> <li>- GS3522 (VPA-08): 21/10/2015</li> <li>- GS3523 (VPA-09): 21/10/2015</li> <li>- GS3524 (VPA-10): 20/11/2015</li> </ul>                                                                                                                                   |
| <b>Date of Last Annual Report</b>                   | 02/12/2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Monitoring period number</b>                     | 7 <sup>th</sup> monitoring period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Duration of this monitoring period</b>           | <ul style="list-style-type: none"> <li>- GS2456 (VPA-01): 01/01/2021 – 31/12/2021</li> <li>- GS3516 (VPA-02): 01/01/2021 – 31/12/2021</li> <li>- GS3517 (VPA-03): 01/01/2021 – 31/12/2021</li> <li>- GS3518 (VPA-04): 01/01/2021 – 31/12/2021</li> <li>- GS3519 (VPA-05): 01/01/2021 – 31/12/2021</li> <li>- GS3520 (VPA-06): 01/01/2021 – 31/12/2021</li> <li>- GS3521 (VPA-07): 01/01/2021 – 31/12/2021</li> <li>- GS3522 (VPA-08): 01/01/2021 – 31/12/2021</li> <li>- GS3523 (VPA-09): 01/01/2021 – 31/12/2021</li> <li>- GS3524 (VPA-10): 01/01/2021 – 31/12/2021</li> </ul> |
| <b>Project Representative</b>                       | Association tiipaalga                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Host Country</b>                                 | Burkina Faso                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Activity Requirements applied</b>                | <input checked="" type="checkbox"/> Community Services Activities<br><input type="checkbox"/> Renewable Energy Activities<br><input type="checkbox"/> Land Use and Forestry Activities/Risks & Capacities<br><input type="checkbox"/> N/A                                                                                                                                                                                                                                                                                                                                        |
| <b>Methodology (ies) applied and version number</b> | Gold Standard Simplified Methodology for Efficient Cookstoves - Version 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Product Requirements applied</b>                 | <input checked="" type="checkbox"/> GHG Emissions Reduction & Sequestration<br><input type="checkbox"/> Renewable Energy Label<br><input type="checkbox"/> N/A                                                                                                                                                                                                                                                                                                                                                                                                                   |

**Table 1 - Sustainable Development Contributions Achieved**

| Sustainable Development Goals Targeted | SDG Impact                                                                                                                                                                                                                                                                                                                                                                                                              | Amount Achieved                                                                                                                                                                         | Units/ Products                                                              |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 13                                     | Number of tCO2e reduced by the project                                                                                                                                                                                                                                                                                                                                                                                  | VPA-01: 5,656<br>VPA-02: 4,668<br>VPA-03: 8,919<br>VPA-04: 8,452<br>VPA-05: 8,193<br>VPA-06: 9,860<br>VPA-07: 8,418<br>VPA-08: 8,760<br>VPA-09: 9,049<br>VPA-10: 9,006<br>Total: 80,981 | VER                                                                          |
| 1                                      | <b>Parameter #1:</b> Number of leader women (Monitrice endogène) who benefit from microcredit<br><b>Parameter #2:</b> Proportion of leader women (Monitrice endogène) participating to microcredit scheme which make benefits from Income Generating Activities financed through the microcredit scheme<br><b>Parameter #3:</b> Total benefit from Income Generating activities financed through the microcredit scheme | Parameter #1: 870<br>Parameter #2: 99.5%<br>Parameter #3: 17,787,695 FCFA or 27,194€                                                                                                    | Parameter #1: Persons<br>Parameter #2: Percentage<br>Parameter #3: FCFA or € |
| 3                                      | <i>Proportion of households perceiving:</i><br>-Smoke level reduction<br>-Incidence of coughing reduction<br>-Incidence of respiratory illness reduction                                                                                                                                                                                                                                                                | 100%<br>100%<br>100%<br>100%                                                                                                                                                            | Percentage                                                                   |

|   |                                                                                                                                                                                           |                                                                                                                                                                                                                                                   |            |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
|   | -Incidence of itchy eyes reduction                                                                                                                                                        |                                                                                                                                                                                                                                                   |            |
| 4 | <p><b>Parameter #1:</b> Number of training initiatives for staff involved in the programme</p> <p><b>Parameter #2:</b> Number of workshops carried out for women</p>                      | <p>Parameter #1: 1</p> <p>Parameter #2: 307</p>                                                                                                                                                                                                   | Units      |
| 5 | <p>Proportion of stove users perceiving reduced amount of time spent on wood fuel collection and/or proportion of user perceiving reduced amount of money spent on wood fuel purchase</p> | <p>Reduced amount of time spent on wood fuel collection: 100%</p> <p>Reduced amount of money spent on wood fuel purchase: 100%</p>                                                                                                                | Percentage |
| 7 | Number of F3PA efficient cookstoves disseminated                                                                                                                                          | <p>VPA 01 : 6,151</p> <p>VPA 02 : 5,557</p> <p>VPA 03 : 8,779</p> <p>VPA 04 : 8,553</p> <p>VPA 05 : 8,303</p> <p>VPA 06 : 11,040</p> <p>VPA 07 : 9,340</p> <p>VPA 08 : 8,989</p> <p>VPA 09 : 8,256</p> <p>VPA 10 : 8,012</p> <p>Total: 82,980</p> | ICS units  |

**Table 2 – Product Vintages**

|         |             |            | Amount Achieved |
|---------|-------------|------------|-----------------|
| No. VPA | Start Dates | End Dates  | VERs            |
| VPA 1   | 01/01/2021  | 31/12/2021 | 5,656           |
| VPA 2   | 01/01/2021  | 31/12/2021 | 4,668           |
| VPA 3   | 01/01/2021  | 31/12/2021 | 8,919           |
| VPA 4   | 01/01/2021  | 31/12/2021 | 8,452           |

|        |            |            |       |
|--------|------------|------------|-------|
| VPA 5  | 01/01/2021 | 31/12/2021 | 8,193 |
| VPA 6  | 01/01/2021 | 31/12/2021 | 9,860 |
| VPA 7  | 01/01/2021 | 31/12/2021 | 8,418 |
| VPA 8  | 01/01/2021 | 31/12/2021 | 8,760 |
| VPA 9  | 01/01/2021 | 31/12/2021 | 9,049 |
| VPA 10 | 01/01/2021 | 31/12/2021 | 9,006 |

## SECTION A. DESCRIPTION OF PROJECT

### A.1. General description of project

The group of 10 micro-scale voluntary project activities (mVPA's) promotes the distribution and utilisation of the mud made three stones efficient woodstove "F3PA" in the Northern rural zones of Burkina Faso. The 10 mVPA's are all together implemented in the provinces of Bam and Loroum. The F3PA efficient cookstoves replace the traditional open air three stone cooking method whilst respecting the local three stone cooking culture. This is possible as the F3PA efficient 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 improved technology F3PA is significantly more efficient than the traditional open fire three stone cooking method. The project activities 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 combat the ever-increasing threat of desertification in the area. The F3PA efficient cookstove has further benefits such as avoiding hazardous open flame systems and reducing the quantity of harmful smoke in the local rural village households. Local families and women also benefit significantly through a reduction in time spent and distance walked in collecting wood. The project does not consist in a fuel switch as locally available wood is still being used.



Figure 1 F3PA efficient cookstoves

The Monitoring Report applies to the F3PA efficient cookstove which is the primary technology disseminated and progressively installed for households in the rural provinces Bam and Loroum in the north of Burkina Faso within the group of 10 mVPA's. During the seventh monitoring period from 01/01/2021 to 31/12/2021, it is calculated that VPA-01, VPA-02, VPA-03, VPA-04, VPA-05, VPA-06, VPA-07, VPA-08, VPA-09 and VPA-10 have generated **80,981** tonnes of CO<sub>2</sub>eq emission reductions.

## A.2. Location of project

- Host country: Burkina Faso
- Geographical location :

Table 3 Coordinates of the project intervention area

| Province | Municipality | Latitude      | Longitude    |
|----------|--------------|---------------|--------------|
| Bam      | Bourzanga    | 13° 40' 41" N | 1° 32' 46" W |
| Bam      | Rollo        | 13° 35' 58" N | 1° 42' 21" W |
| Loroum   | Ouindigui    | 13° 40' 60" N | 1° 58' 00" W |
| Bam      | Tikaré       | 13° 17' 29" N | 1° 43' 34" W |
| Bam      | Kongoussi    | 13° 19' 33" N | 1° 32' 05" W |
| Bam      | Guibaré      | 13° 06' 00" N | 1° 36' 00" W |
| Bam      | Nasseré      | 13° 20' 00" N | 1° 22' 00" W |
| Bam      | Sabcé        | 13° 11' 52" N | 1° 31' 18" W |
| Bam      | Rouko        | 13° 13' 00" N | 1° 38' 00" W |

- Map:

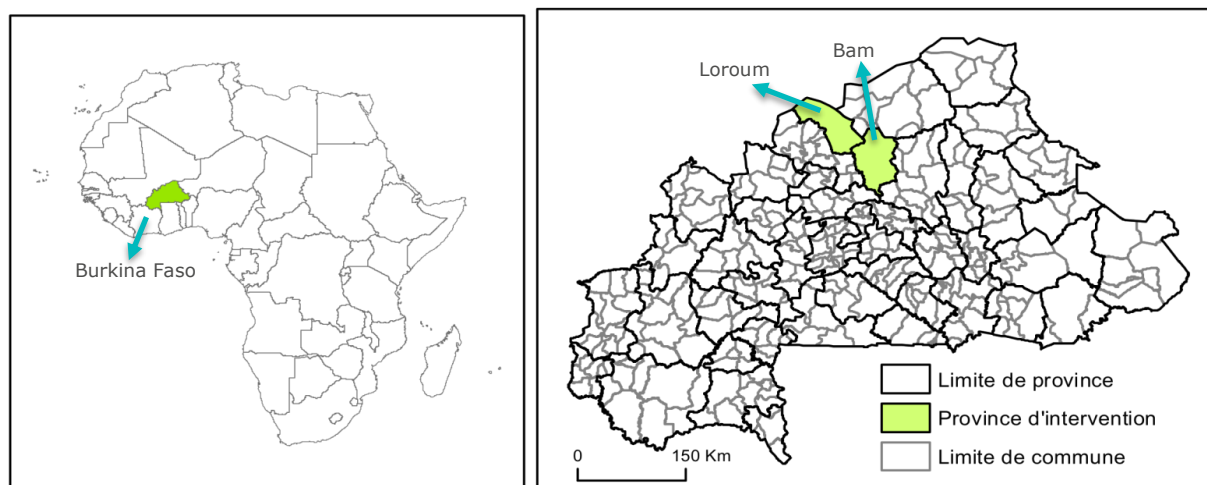


Figure 2 Location of project intervention area

### A.3. Reference of applied methodology

"The Gold Standard Simplified Methodology for Efficient Cookstoves", version 1

### A.4. Crediting period of project

- GS2456 (VPA-01): 05/02/2015 – 04/02/2024, 10 years;
- GS3516 (VPA-02): 08/02/2015 – 07/02/2024, 10 years;
- GS3517 (VPA-03): 03/02/2015 – 02/02/2024, 10 years;
- GS3518 (VPA-04): 06/02/2015 – 05/02/2024, 10 years;
- GS3519 (VPA-05): 02/02/2015 – 01/02/2024, 10 years;
- GS3520 (VPA-06): 11/02/2015 – 10/02/2024, 10 years;
- GS3521 (VPA-07): 14/02/2015 – 13/02/2024, 10 years;
- GS3522 (VPA-08): 02/02/2015 – 01/02/2024, 10 years;
- GS3523 (VPA-09): 02/02/2015 – 01/02/2024, 10 years;
- GS3524 (VPA-10): 11/02/2015 – 10/02/2024, 10 years.

## SECTION B. IMPLEMENTATION OF PROJECT

### B.1. Description of implemented project

The project activities have served the following number of households with F3PA efficient cookstoves with a corresponding calculated GHG offsets generated during the seventh monitoring period:

| GS/VPA number   | Number of households | Dissemination calendar  | Generated VER's |
|-----------------|----------------------|-------------------------|-----------------|
| GS2456 (VPA-01) | 2,138                | 04/02/2015 – 31/12/2021 | 5,656           |
| GS3516 (VPA-02) | 1,829                | 07/02/2015 – 31/12/2021 | 4,668           |
| GS3517 (VPA-03) | 3,400                | 02/02/2015 – 31/12/2021 | 8,919           |
| GS3518 (VPA-04) | 3,114                | 05/02/2015 – 31/12/2021 | 8,452           |
| GS3519 (VPA-05) | 3,178                | 01/02/2015 – 31/12/2021 | 8,193           |
| GS3520 (VPA-06) | 4,248                | 10/02/2015 – 31/12/2021 | 9,860           |
| GS3521 (VPA-07) | 3,581                | 13/02/2015 – 31/12/2021 | 8,418           |
| GS3522 (VPA-08) | 3,281                | 01/02/2015 – 31/12/2021 | 8,760           |
| GS3523 (VPA-09) | 3,182                | 01/02/2015 – 31/12/2021 | 9,049           |
| GS3524 (VPA-10) | 3,138                | 10/02/2015 – 31/12/2021 | 9,006           |
| <b>Total:</b>   | <b>31,089</b>        |                         | <b>80,981</b>   |

#### B.1.1 Forward Action Requests

**Forward Action Request # 1:** As per GS4GG PoA requirements v1.2 (2019) para 9.1.2 'A microscale VPA must be subjected to an Objective Observer appraisal and site visit at least once within three years of date of VPA inclusion or start of crediting period, whichever is later.' an onsite visit will be conducted for the next periodic verification.

- PP has initiated the demand to conduct an OO assessment for the present verification (MP7). PP was actively looking for OO candidates. Evidence of the initiation of the OO assessment can be found in the email exchange between PP and SustainCERT in document : 'GS1340\_GS2456\_GS3516-24 - VPA1-10 of PoA GS1340 - OO assessment MP7' (starting from 01/09/2022). Since the initial submission of the MR (09/2022), PD introduced a deviation request to postpone any site visit related to the verification of the VPAs within the PoA GS1340. The reason is that the security situation in Burkina Faso is highly unstable and unpredictable. This would be a risk for the safety of the appointed OO. More details can be found in the deviation request form<sup>1</sup> (approved on the 17/01/2023). For the next verification, an on-site visit by OO must be performed.

<sup>1</sup> See document: ' T-V5.0-Deviation-Request-Form\_PoA GS1340 Verification Vintage 2022\_v3.0\_SC\_FINAL'

## **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

No change of start date of the project was made.

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's 1 to 10. 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:

- 'DR\_Tiipaalga\_VPA01-10\_HH\_MP7': 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.
- 'DR\_Tiipaalga\_VPA01-10\_ICS\_MP7': 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 ('DR\_Tiipaalga\_VPA01-10\_HH\_MP7');
  - 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 *'Tiipaalgā\_VPA1-10\_ MP7\_Date recente\_All HH'*). For each household, the number of days in age group 0-1, age group 1-2, age group 2-3, age group 3-4 and age-group 4-5 are calculated based on this date. The file *'Tiipaalgā\_VPA1-10\_ MP7\_Date recente\_All HH'* contains also the sampling frame used for the sampling of the project database required for the monitoring survey. All the households are assigned to an age group (AG) at the date of sampling (28/02/2022) based on their years of usage up to this date.

### Process of project cookstoves renewal:

For the second time since the beginning of the project in 2015, PD decided to conduct renewal activities in 2022 in order to ensure the lasting quality of the project cookstoves. As during MP6, PD decided to trigger in 2022 the renewal campaigns for the oldest project cookstoves (5 years old), namely the ones installed in the second year of the project in 2016. This renewal process was made possible thanks to the revenues generated by the carbon credits issued during the previous performance certifications of the project. The renewal campaign took place in different steps:

- **Initiation:** The renewal campaign for the households equipped with F3PA cookstoves in 2016 started in November 2020. Till the end of this year, animations were conducted by Association tiipaalgā in the concerned villages to prepare the leader women ("monitrices endogènes") for the future renewal processes. Trainings for the F3PA construction and maintenance methods were provided. If they were interested, new leader women could also join the activities and be trained by the facilitators of Association tiipaalgā.
- **Renewal of F3PAs:** Once the F3PA construction and maintenance trainings were completed, the (re)trained women go back to their villages to set up the renewal activities within households. Those activities intended to restore the F3PAs built in 2016 but also the construction of new F3PAs for the households who did not have one.
- **Recording of the households:** Once the renewal process is well established in the villages (from March onwards), the renewed households are updated in a new database. In practice, the tiipaalgā's database manager goes to the village and identifies, with the help of the president of the leader women, all the households from 2016 who participated to the renewal campaigns in 2021. Based on an appreciation on the state of all the F3PAs of all the women of the households, the surveyor decides if the household will be included in the renewal database as part of AG0-1. If one of the F3PA is not in an acceptable state ("red" state, see below); the household will not be included in the renewal database. In this case, the household has until the end of the renewal campaigns (December 2021) to meet the requirements to be included back in the project database; else the household will be removed from the database. On the other hand, the surveyor visits also the households which were not initially included in 2016 database but who now also have F3PAs cookstoves set thanks to the renewal activities. If those households meet the requirements, they are also included as new households

(AG0-1) in the renewal database. Figure 3 presents a diagram of the state of the database for MP7.

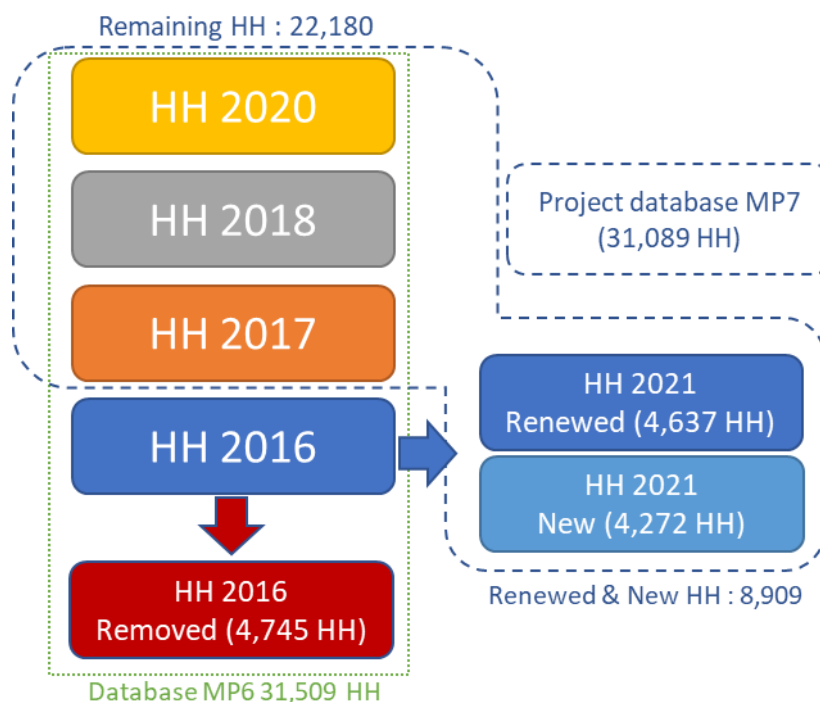


Figure 3 Repartition of MP7 households (HH) database

### 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 under the PoA GS1340:

1. **VPA's 11 to 13 (GS6152-6419-6420):** are implemented in the province Kourwéogo in the Plateau Central region;
2. **VPA's 14 to 17 and VPA 29 (GS10778 to GS10781 and GS11074):** are located in the Center-South region of Burkina Faso, in the province of Nahouri;
3. **VPA's 18 to 24 (GS10922 to GS10928):** are located in the provinces of Nahouri and Zoundwéogo;
4. **VPA's 25 to 28 (GS11070 to GS11073):** are located in the province of Passoré.

The first three projects are also monitored by Association tiipaalga, that ensures there is no double counting. The fourth one is implemented by another NGO Solidagro in a separate area, hence there is also no risk of double counting. Association tiipaalga is

also aware of another cookstove project<sup>2</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;
- 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.

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<sup>2</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.

- 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/renewal, 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.

The Association tiipaalga also organises theatrical performances to sensitize households and MEs on the adoption of the F3PA technology and on how to rebuild the old F3PAs to facilitate the diffusion-construction of F3PAs in new households and to encourage maintenance, repair and protection of F3PAs in old households.

### **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. Association 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.

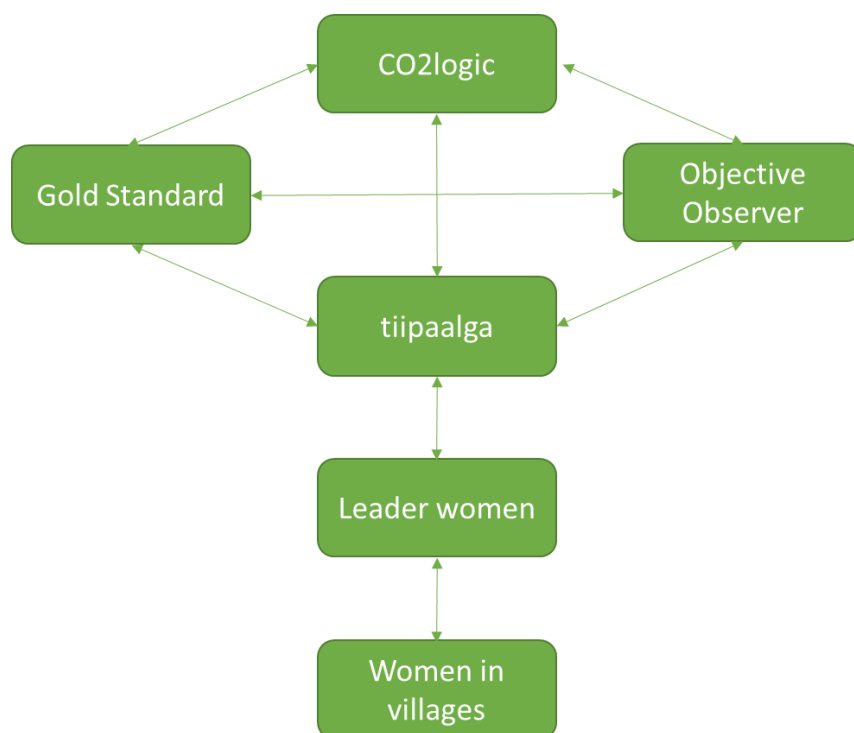


Figure 4 Diagram of responsibilities

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 2-days training session which was this year conducted from 18/03/2022 till 19/03/2022<sup>3</sup>. CO2logic assists tiipaalga in cross-checking the integrity of data with other variables to ensure consistency and accuracy, and to avoid mistakes.

<sup>3</sup> Report of the training session, see document: 'GS1340\_VPA1-10\_MP7\_Rapport de formation\_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                                                                                                            |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Data/parameter:</b>                               | <b>EF<sub>b,fuel,CO2</sub></b>                                                                                                    |
| Unit                                                 | tCO2/ton of firewood                                                                                                              |
| Description                                          | CO2 emission factor arising from use of firewood in baseline scenario                                                             |
| Source of data                                       | IPCC default value, table 1.4 of <a href="#">Chapter 1 of Vol.2, 2006 IPCC Guidelines for National Greenhouse Gas Inventories</a> |
| Value(s) applied)                                    | 1.747 tCO2/ton of firewood                                                                                                        |
| Choice of data or measurement methods and procedures | As defined under the Gold Standard Simplified Methodology for Efficient Cookstoves v1.0                                           |
| Purpose of data                                      | Calculation of emission reductions                                                                                                |
| Additional comments                                  | N/A                                                                                                                               |

| Relevant SDG Indicator                               | SDG 13, Climate Action                                                                                                                                    |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data/parameter:</b>                               | <b>EF<sub>b,fuel,non_CO2</sub></b>                                                                                                                        |
| Unit                                                 | tCO2/ton of firewood                                                                                                                                      |
| Description                                          | Non-CO2 emission factor arising from use of firewood in baseline scenario                                                                                 |
| Source of data                                       | <a href="#">IPCC Fifth Assessment Report</a> : Climate Change (IPCC AR5)                                                                                  |
| Value(s) applied)                                    | 0.581 tCO2/ton of firewood                                                                                                                                |
| Choice of data or measurement methods and procedures | As per Rule Update " <a href="#">Applicability of Global Warming Potential for Gold Standard For The Global Goals Projects</a> " published on 27/10/2020. |
| Purpose of data                                      | Calculation of emission reductions                                                                                                                        |
| Additional comments                                  | N/A                                                                                                                                                       |

| Relevant SDG Indicator | SDG 13, Climate Action                                          |
|------------------------|-----------------------------------------------------------------|
| <b>Data/parameter:</b> | <b>η<sub>b</sub></b>                                            |
| Unit                   | Fraction                                                        |
| Description            | Efficiency of the cookstove being used in the baseline scenario |

|                                                      |                                                                                         |
|------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Source of data                                       | Gold Standard Simplified Methodology for Efficient Cookstoves v1.0                      |
| Value(s) applied)                                    | 0.10                                                                                    |
| Choice of data or measurement methods and procedures | As defined under the Gold Standard Simplified Methodology for Efficient Cookstoves v1.0 |
| 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>4</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Choice of data or measurement methods and procedures | As defined under the Gold Standard Simplified Methodology for Efficient Cookstoves v1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 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 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</p> |

<sup>4</sup> Rapport sur les tests de performances énergétiques des Foyers trois pierres améliorés (F3PA) de l'association Tiipaalg, Laboratoire Biomasse Energie et Biocarburant de ZIE, Ouagadougou, July 2015 (see document in English : « tiipaalg\_Report WBT thermal efficiency\_F3PA\_24\_07\_2015\_VF\_EN »)

|  |                                                                        |
|--|------------------------------------------------------------------------|
|  | efficiency loss of project cookstove per year of operation (fraction). |
|--|------------------------------------------------------------------------|

| Relevant SDG Indicator                               | SDG 13, Climate Action                                                                                                                                                                                       |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data/parameter:</b>                               | <b>f<sub>NRB,b,y</sub></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 v1.0                                                                                                                      |
| Purpose of data                                      | Calculation of emission reductions                                                                                                                                                                           |
| Additional comments                                  | The project activity may choose to update the f <sub>NRB,b,y</sub> during the crediting period                                                                                                               |

| Relevant SDG Indicator | SDG 13, Climate Action                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data/parameter:</b> | <b>B<sub>b,y</sub></b>                                                                                                                                                                                                                                                                                                                                                                                     |
| Unit                   | Tonnes firewood per household per year                                                                                                                                                                                                                                                                                                                                                                     |
| Description            | Firewood consumption for cooking in the baseline                                                                                                                                                                                                                                                                                                                                                           |
| Source of data         | Average household size within the project boundary is determined for each VPA using data from the latest population census in 2006 of the National Institute for Statistics and Demography <sup>5</sup> . The minimum service level or the default baseline biomass consumption according the Gold Standard Simplified Methodology for Efficient Cookstoves v1.0 is set at 0.5 tonnes per capita per year. |
| Value(s) applied)      | VPA-01 – Bourzanga: 3.39<br>VPA-02 – Bourzanga: 3.39<br>VPA-03 – Rollo: 3.33<br>VPA-04 – Ouindigui: 3.53<br>VPA-05 – Tikaré: 3.41<br>VPA-06 – Kongoussi: 3.03<br>VPA-07 – Kongoussi : 3.03<br>VPA-08 – Guibaré : 3.44<br>VPA-09 – Nasséré and Sabcé: 3.74                                                                                                                                                  |

<sup>5</sup> INSD, recensement général de la population et de l'habitation de 2006, juillet 2008, Ministère de l'Economie et des Finances, p43 (tableau 15), 52 pages (document *Resultats\_definitifs\_RGPH\_2006*)

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                      | VPA-10 – Rouko and Sabcé : 3.78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Choice of data or measurement methods and procedures | Option c of Minimum service level has been chosen to determine the firewood consumption for cooking in the baseline as detailed information per municipality on average household size is available in the “Recensement général de la population et de l’habitation (RGPH) de 2006 du Burkina Faso” or the general census of the population and habitat of Burkina Faso, table 15. Other sources show that the population in Burkina Faso is growing each year <sup>6</sup> . This means that the used value can be considered as conservative to calculate the CO2 reduction emissions. |
| Purpose of data                                      | Calculation of emission reductions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Additional comments                                  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## D.2 Data and parameters monitored

| Relevant SDG Indicator            | SDG 1, No poverty                                                                                                                                                                                                                                                            |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data/ Parameter                   | <b>Number of leader women (Monitrice endogène) who benefit from microcredit</b>                                                                                                                                                                                              |
| Unit                              | Number of persons                                                                                                                                                                                                                                                            |
| Description                       | Number of leader women (Monitrice endogène) who benefit from microcredit                                                                                                                                                                                                     |
| Source of data                    | Reports regarding the implementation of microcredit scheme for leader women involved in the project: see document ‘Rapport_Evaluation_1er_cycle_Micro-Crédit_an4_2021_with comments’, Table 2, pg 8.                                                                         |
| Value(s) applied                  | 870                                                                                                                                                                                                                                                                          |
| Measurement methods and procedure | The measurement of the parameter is based on qualitative information collected in the reports regarding the microcredit scheme.                                                                                                                                              |
| Monitoring frequency              | Annual                                                                                                                                                                                                                                                                       |
| QA/QC procedures                  | The data has been reviewed in the reports regarding the microcredit scheme, which is made available for review.                                                                                                                                                              |
| Purpose of data                   | Calculation of the parameter “Number of leader women (Monitrice endogène) who benefit from microcredit”                                                                                                                                                                      |
| Additional comment                | In the fourth phase of the implementation of the Tiipaalga microcredit scheme 870 monitrices endogènes from 48 villages received 24,000,000 FCFA or 36,641 € on their microcredit account for the finance of income generating activities (see Table 2 on page 8 of document |

<sup>6</sup> INSD, Annuaire Statistique 2011, Ministère de l’Economie et des Finances, Edition 2013, p24 - 27 (table 02.18), 420 p.) – Document *Annuaire\_statistiques\_finale2011*

|  |                                                                                                                                                   |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 'Rapport_Evaluation_1er_cycle_Micro-Crédit_an4_2021_with_comments'). This money allowed them to generate a benefit of 17,787,695 FCA or 27,194 €. |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------|

| Relevant SDG Indicator            | SDG 1, No poverty                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data/ Parameter                   | <b>Proportion of leader women (Monitrice endogène) participating to microcredit scheme which make benefits from Income Generating Activities financed through the microcredit scheme</b>                                                                                                                                                                                                                                               |
| Unit                              | Fraction                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Description                       | Number of leader women (Monitrice endogène) participating to microcredit scheme which make benefits from Income Generating Activities financed through the microcredit scheme / Number of leader women (Monitrice endogène) participating to the microcredit scheme                                                                                                                                                                    |
| Source of data                    | See report <i>Rapport_Evaluation_1er_cycle_Micro-Crédit_an4_2021_with_comments'</i> : report of the impact of phase 4 of the microcredit scheme (Annex 2 on page 15: 4 out of the 870 leader women made some losses).                                                                                                                                                                                                                  |
| Value(s) applied                  | 99.5%                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Measurement methods and procedure | The measurement of the parameter is based on qualitative information collected in the reports regarding the microcredit scheme.                                                                                                                                                                                                                                                                                                        |
| Monitoring frequency              | After each implementation phase of the microcredit scheme                                                                                                                                                                                                                                                                                                                                                                              |
| QA/QC procedures                  | The data has been reviewed in the reports regarding the microcredit scheme, which is made available for review.                                                                                                                                                                                                                                                                                                                        |
| Purpose of data                   | Calculation of the parameter "Proportion of leader women (Monitrice endogène) participating to microcredit scheme which make benefits from Income Generating Activities financed through the microcredit scheme"                                                                                                                                                                                                                       |
| Additional comment                | In the fourth phase of the implementation of the Tiipaalga microcredit scheme 870 monitrices endogènes from 48 villages received 24,000,000 FCFA or 36,641 € on their microcredit account for the finance of income generating activities (see Table 2 on page 8 of document <i>'Rapport_Evaluation_1er_cycle_Micro-Crédit_an4_2021_with_comments'</i> ). This money allowed them to generate a benefit of 17,787,695 FCA or 27,194 €. |

| Relevant SDG Indicator | SDG 1, No poverty                                                                              |
|------------------------|------------------------------------------------------------------------------------------------|
| Data/ Parameter        | <b>Total benefit from Income Generating activities financed through the microcredit scheme</b> |
| Unit                   | FCFA and/or €                                                                                  |

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                       | 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                                                                                                                                                                                                                                                          |
| Source of data                    | Reports regarding the implementation of microcredit scheme for leader women involved in the project: see document ' <i>Rapport_Evaluation_1er_cycle_Micro-Crédit_an4_2021_with comments</i> ', pg 8.                                                                                                                                                                                                                                    |
| Value(s) applied                  | 17,787,695 FCFA or 27,194 €                                                                                                                                                                                                                                                                                                                                                                                                             |
| Measurement methods and procedure | The measurement of the parameter is based on qualitative information collected in the reports regarding the microcredit scheme.                                                                                                                                                                                                                                                                                                         |
| Monitoring frequency              | After each implementation phase of the microcredit scheme                                                                                                                                                                                                                                                                                                                                                                               |
| QA/QC procedures                  | The data has been reviewed in the reports regarding the microcredit scheme, which is made available for review.                                                                                                                                                                                                                                                                                                                         |
| Purpose of data                   | Calculation of the parameter "Total benefit from Income Generating activities financed through the microcredit scheme"                                                                                                                                                                                                                                                                                                                  |
| Additional comment                | In the fourth phase of the implementation of the Tiipaalga microcredit scheme 870 monitrices endogènes from 48 villages received 24,000,000 FCFA or 36,641 € on their microcredit account for the finance of income generating activities (see Table 2 on page 8 of document ' <i>Rapport_Evaluation_1er_cycle_Micro-Crédit_an4_2021_with comments</i> '). This money allowed them to generate a benefit of 17,787,695 FCA or 27,194 €. |

| Relevant SDG Indicator            | SDG 3, Good health and well-being                                                                                                                                                                                                      |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data/ Parameter                   | <b>Proportion of households perceiving less often smoke levels, incidence of coughing, incidence of respiratory illness, incidence of itchy eyes</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 ' <i>GS1340_VPA1-10_MP7_MS</i> '/ Tab 'Analysis'.                                                                                                                                                      |
| Value(s) applied                  | Smoke level reduction: 100%<br>Incidence of coughing reduction: 100%<br>Incidence of respiratory illness reduction: 100%<br>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.                                                                                                                                                                         |

| Relevant SDG Indicator            | SDG 4, Quality Education                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Data/ Parameter                   | <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<br>See document ' <i>GS1340_VPA1-10_MP7_Rapport de formation_with comments</i> '.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 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                | <p>Starting from the 18/03/2022, four surveyors received a 2-day training under the supervision of three members of Association tiipaalg. 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: '<i>GS1340_VPA1-10_MP7_Rapport de formation_with comments</i>'.</p> <p>In total 1 training has been organized during the monitoring period:<br/>Training initiative:</p> <ul style="list-style-type: none"> <li>- March 2022: 2 days;</li> <li>- Tiipaalg office in Ouagadougou and field tests;</li> <li>- 7 participants</li> </ul> |

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|  | <ul style="list-style-type: none"> <li>- Utilization of smartphones with AKVO Flow software for monitoring survey (of the 7<sup>th</sup> verification);</li> </ul> <p>See document 'GS1340_VPA1-10_MP7_Rapport de formation_with comments'.</p> |
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| Relevant SDG Indicator            | SDG 4, Quality Education                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Data/ Parameter                   | Number of workshops carried out for women                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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 documents 'Synthèse formations-recyclages-animations-sensibilisation_2021_F3PA BAM-LOROUUM_with comments' and 'Synthèse_ formations-recyclages-animations-sensibilisations_2021_F3PA-VPA1-10 MP7'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Value(s) applied                  | 307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 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                | <p>Two types of workshops were organized: 1) sensitization workshops; and 2) training workshops of leader women for the construction and renewal of F3PA efficient cookstoves. During the sensibilization sessions different activities were conducted:</p> <ul style="list-style-type: none"> <li>i. Stove users are informed about the advantages of the project cookstoves for the climate and desertification of the project area, tiipaalgá's activities, on how the banco or mud should be prepared for the construction of the cookstoves etc.</li> <li>ii. Beneficiaries of the micro-credit schemes are informed towards the modality and good practices of the lending money principles;</li> <li>iii. Theatrical performances to sensitize households and MEs on the adoption of the F3PA technology and on how to rebuild the old F3PAs to facilitate the diffusion-construction of F3PAs in new households and to encourage maintenance, repair and protection of F3PAs in old households</li> </ul> <p>During training sessions leader women are trained on how the F3PA efficient cookstoves should be constructed and maintained.</p> |

In total, 7,993 participants were present during the workshops; 81% of which were women. A complete summary of the different sessions can be found in documents : *'Synthèse formations-recyclages-animations-sensibilisation\_2021\_F3PA BAM-LOROUM\_with comments'* and *'Synthèse formations-recyclages-animations-sensibilisations\_2021\_F3PA-VPA1-10 MP7'*.

The following table gives an overview of the number of sessions and number of participants:

| VPA          | Sensitization sessions |              | Training workshops of leader women |              | Total      |              |
|--------------|------------------------|--------------|------------------------------------|--------------|------------|--------------|
|              | #sessions              | #women       | #sessions                          | #women       | #sessions  | #women       |
| 1            | 12                     | 280          | 4                                  | 158          | 16         | 438          |
| 2            | 24                     | 699          | 8                                  | 213          | 32         | 912          |
| 3            | 22                     | 435          | 11                                 | 289          | 33         | 724          |
| 4            | 10                     | 239          | 5                                  | 128          | 15         | 367          |
| 5            | 28                     | 619          | 10                                 | 205          | 38         | 824          |
| 6            | 28                     | 565          | 8                                  | 324          | 36         | 889          |
| 7            | 32                     | 1,164        | 12                                 | 591          | 44         | 1,755        |
| 8            | 8                      | 339          | 2                                  | 43           | 10         | 382          |
| 9            | 43                     | 870          | 17                                 | 316          | 60         | 1,186        |
| 10           | 15                     | 376          | 8                                  | 140          | 23         | 516          |
| <b>Total</b> | <b>222</b>             | <b>5,586</b> | <b>85</b>                          | <b>2,407</b> | <b>307</b> | <b>7,993</b> |

Evidence of the sensitisation sessions and training workshops can be shared upon request.

| Relevant SDG Indicator | SDG 5, Gender equality                                                                                                                                                                                                           |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data/ Parameter        | <b>Proportion of stove users perceiving reduced amount of time spent on wood fuel collection and/or proportion of user perceiving reduced amount of money spent on wood fuel purchase</b>                                        |
| Unit                   | Fraction                                                                                                                                                                                                                         |
| Description            | Proportion of stove users perceiving reduced time spent on wood fuel collection and/or reduced money spent on wood fuel purchase since the implementation of the F3PA efficient cookstoves                                       |
| Source of data         | Monitoring survey, see document <i>'GS1340_VPA1-10_MP7_MS'</i> / Tab <i>'Analysis'</i> .                                                                                                                                         |
| Value(s) applied       | Proportion of stove users perceiving reduced amount of time spent on wood fuel collection: 100%<br>Activities done in saved time:<br>i. Domestic tasks <sub>p</sub> : 98%<br>ii. Income generating activities <sub>p</sub> : 66% |

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|                                   | <ul style="list-style-type: none"> <li>iii. Field labour<sub>p</sub>: 6%</li> <li>iv. Gardening<sub>p</sub>: 4%</li> <li>v. Participating in a literacy program<sub>p</sub>: 2%</li> <li>vi. Community work<sub>p</sub>: 3%</li> <li>vii. Doing nothing<sub>p</sub>: 1%</li> <li>viii. Religious activities<sub>p</sub>: 5%</li> <li>ix. Leisure<sub>p</sub>: 5%</li> </ul> <p>Proportion of stove users perceiving reduced amount of money spent on wood fuel purchase: 100%</p> <p>Usage of saved money:</p> <ul style="list-style-type: none"> <li>i. School fees<sub>p</sub>: 67%</li> <li>ii. Purchase of medical drugs<sub>p</sub>: 0%</li> <li>iii. Purchase of food<sub>p</sub>: 67%</li> <li>iv. Savings<sub>p</sub>: 0%</li> <li>v. Other<sub>p</sub>: 33%</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 "Proportion of stove users perceiving reduced amount of time spent on wood fuel collection and/or proportion of user perceiving reduced amount of money spent on wood fuel purchase"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Additional comment                | N.A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Relevant SDG Indicator | SDG 7, Affordable and clean energy                                                                                                                     |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data/ Parameter        | Number of F3PA efficient cookstoves disseminated for the group of VPA's                                                                                |
| Unit                   | Number                                                                                                                                                 |
| Description            | Number of F3PA efficient cookstoves included in the project database for project scenario p                                                            |
| Source of data         | Project database. See document 'DR_Tiipaalga_VPA01-10_ICS_MP7'.                                                                                        |
| Value(s) applied       | VPA 01: 6,151<br>VPA 02: 5,557<br>VPA 03: 8,779<br>VPA 04: 8,553<br>VPA 05: 8,303<br>VPA 06: 11,040<br>VPA 07: 9,340<br>VPA 08: 8,989<br>VPA 09: 8,256 |

|                                   |                                                                                                          |
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|                                   | VPA 10: 8,012<br>Total : 82,980                                                                          |
| 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                | N.A.                                                                                                     |

| Relevant SDG Indicator            | SDG 13, Climate action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <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_VPA1-10_MP7_MS' / Tab 'Analysis'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Value(s) applied                  | 81.82%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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 in order 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 cookstove 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 10 VPA's included in this PoA 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> |

| Relevant SDG Indicator            | SDG 13, Climate action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Data/ Parameter</b>            | <b>U<sub>p,2</sub></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Unit                              | Percentage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Description                       | Usage rate in project scenario p during year 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Source of data                    | Annual usage/monitoring survey. See document: 'GS1340_VPA1-10_MP7_MS' / Tab 'Analysis'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Value(s) applied                  | 78.18%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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 in order 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 cookstove 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 10 VPA's included in this PoA 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> |

| Relevant SDG Indicator            | SDG 13, Climate action                                                                                                                                                                                                              |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data/ Parameter</b>            | <b>U<sub>p,3</sub></b>                                                                                                                                                                                                              |
| Unit                              | Percentage                                                                                                                                                                                                                          |
| Description                       | Usage rate in project scenario p during year 3                                                                                                                                                                                      |
| Source of data                    | Annual usage/monitoring survey. See document: See document: 'GS1340_VPA1-10_MP7_MS' / Tab 'Analysis'.                                                                                                                               |
| Value(s) applied                  | 78.18%                                                                                                                                                                                                                              |
| 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 |

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                      | the observation of the surveyor in order 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 cookstove 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 10 VPA's included in this PoA 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> |

| Relevant SDG Indicator            | SDG 13, Climate action                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data/ Parameter</b>            | <b>U<sub>p,4</sub></b>                                                                                                                                                                                                                                                                                                                                                                                              |
| Unit                              | Percentage                                                                                                                                                                                                                                                                                                                                                                                                          |
| Description                       | Usage rate in project scenario p during year 4                                                                                                                                                                                                                                                                                                                                                                      |
| Source of data                    | Annual usage/monitoring survey. See document: 'GS1340_VPA1-10_MP7_MS' / Tab 'Analysis'.                                                                                                                                                                                                                                                                                                                             |
| Value(s) applied                  | 73.64%                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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 in order 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 cookstove 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 10 VPA's included in this PoA is at household level (with household number) for which</p> |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|  | 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'. |
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| Relevant SDG Indicator            | SDG 13, Climate action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Data/ Parameter                   | U <sub>p,5</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Unit                              | Percentage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Description                       | Usage rate in project scenario p during year 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Source of data                    | Annual usage/monitoring survey. See document: 'GS1340_VPA1-10_MP7_MS' / Tab 'Analysis'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Value(s) applied                  | 62.73%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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 in order 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 cookstove 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 10 VPA's included in this PoA 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> |

| Relevant SDG Indicator            | SDG 13, Climate action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <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 ' <i>Tiipaalga_VPA1-10_MP7_Date recente_All HH</i> ' / Tab 'Analysis'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Value(s) applied                  | VPA 01: 465<br>VPA 02: 200<br>VPA 03: 1,149<br>VPA 04: 879<br>VPA 05: 936<br>VPA 06: 1,545<br>VPA 07: 1,239<br>VPA 08: 642<br>VPA 09: 790<br>VPA 10: 735<br>Total: 8,581                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 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.<br>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.<br>For each household the number of days in each age group are calculated and divided by the number of days in one year. Hence, a household equipped with F3PA cookstove during 6 months of the MP would be considered as 0.5 household equivalent, this to ensure conservativeness in the ER calculations. |
| 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 10 VPA's 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                                                                                                                                                                                                                                                                                                                                                   |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|  | <p>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.</p> <p>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.</p> <p>Women will be trained by the tiipaalga instructors or leader women to build the project cookstoves themselves using local materials according 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 the construction protocol and the management of the project database recording all constructed project cookstoves will be ensured.</p> |
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| Relevant SDG Indicator            | SDG 13, Climate action                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Data/ Parameter</b>            | <b>N<sub>p,2</sub></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Unit                              | Number of households included in the project (Units), based on days of usage of age group 1-2 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 'Tiipaalga_VPA1-10_MP7_Date recente_All HH' / Tab 'Analysis'.                                                                                                                                                                                                                                                                                                                                                                                     |
| Value(s) applied                  | VPA 01: 642<br>VPA 02: 312<br>VPA 03: 688<br>VPA 04: 629<br>VPA 05: 660<br>VPA 06: 931<br>VPA 07: 717<br>VPA 08: 571<br>VPA 09: 373<br>VPA 10: 524<br>Total: 6,046                                                                                                                                                                                                                                                                                                               |
| Measurement methods and procedure | <p>For the determination of the number of usage days at household level for age group 1-2 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.</p> <p>Number of households included in the project (Units) are calculated based on days of usage of age group 1-2 during the corresponding monitoring period related to one year.</p> |

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|                      | For each household the number of days in each age group are calculated and divided by the number of days in one year. Hence, a household equipped with F3PA cookstove during 6 months of the MP would be considered as 0.5 household equivalent, this to ensure conservativeness in the ER calculations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Monitoring frequency | Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| QA/QC procedures     | Transparent data analysis and reporting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Purpose of data      | Calculation of emission reductions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Additional comment   | <p>A part of the households in the project area of the 10 VPA's 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.</p> <p>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.</p> <p>Women will be trained by the tiipaalga instructors or leader women to build the project cookstoves themselves using local materials according 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 the construction protocol and the management of the project database recording all constructed project cookstoves will be ensured.</p> |

| Relevant SDG Indicator | SDG 13, Climate action                                                                                                                                                                                                                      |
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| <b>Data/ Parameter</b> | <b>N<sub>p,3</sub></b>                                                                                                                                                                                                                      |
| Unit                   | Number of households included in the project (Units), based on days of usage of age group 2-3 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 'Tiipaalga_VPA1-10_MP7_Date recente_All HH' / Tab 'Analysis'.                                                                                                                                                |
| Value(s) applied       | VPA 01: 3<br>VPA 02: 5                                                                                                                                                                                                                      |

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|                                   | <p>VPA 03: 18</p> <p>VPA 04: 23</p> <p>VPA 05: 12</p> <p>VPA 06: 44</p> <p>VPA 07: 3</p> <p>VPA 08: 380</p> <p>VPA 09: 50</p> <p>VPA 10: 81</p> <p>Total: 619</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Measurement methods and procedure | <p>For the determination of the number of usage days at household level for age group 2-3 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.</p> <p>Number of households included in the project (Units) are calculated based on days of usage of age group 2-3 during the corresponding monitoring period related to one year.</p> <p>For each household the number of days in each age group are calculated and divided by the number of days in one year. Hence, a household equipped with F3PA cookstove during 6 months of the MP would be considered as 0.5 household equivalent, this to ensure conservativeness in the ER calculations.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Monitoring frequency              | Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| QA/QC procedures                  | Transparent data analysis and reporting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Purpose of data                   | Calculation of emission reductions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Additional comment                | <p>A part of the households in the project area of the 10 VPA's 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.</p> <p>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.</p> <p>Women will be trained by the tiipaalga instructors or leader women to build the project cookstoves themselves using local materials according 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 the construction protocol and the management of the project database recording all constructed project cookstoves will be ensured.</p> |

| Relevant SDG Indicator            | SDG 13, Climate action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Data/ Parameter</b>            | <b>N<sub>p,4</sub></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Unit                              | Number of households included in the project (Units), based on days of usage of age group 3-4 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 ' <i>Tiipaalga_VPA1-10_MP7_Date recente_All HH</i> ' / Tab 'Analysis'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Value(s) applied                  | VPA 01: 153<br>VPA 02: 286<br>VPA 03: 323<br>VPA 04: 328<br>VPA 05: 212<br>VPA 06: 268<br>VPA 07: 272<br>VPA 08: 735<br>VPA 09: 645<br>VPA 10: 558<br>Total: 3,780                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Measurement methods and procedure | For the determination of the number of usage days at household level for age group 3-4 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.<br>Number of households included in the project (Units) are calculated based on days of usage of age group 3-4 during the corresponding monitoring period related to one year.<br>For each household the number of days in each age group are calculated and divided by the number of days in one year. Hence, a household equipped with F3PA cookstove during 6 months of the MP would be considered as 0.5 household equivalent, this to ensure conservativeness in the ER calculations. |
| 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 10 VPA's 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                                                                                                                                                                                                                                                                                                                                                   |

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|  | <p>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.</p> <p>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.</p> <p>Women will be trained by the tiipaalga instructors or leader women to build the project cookstoves themselves using local materials according 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 the construction protocol and the management of the project database recording all constructed project cookstoves will be ensured.</p> |
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| Relevant SDG Indicator            | SDG 13, Climate action                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Data/ Parameter                   | N <sub>p,5</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Unit                              | Number of households included in the project (Units), based on days of usage of age group 4-5 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 'Tiipaalga_VPA1-10_MP7_Date recente_All HH' / Tab 'Analysis'.                                                                                                                                                                                                                                                                                                                                                                                     |
| Value(s) applied                  | VPA 01: 834<br>VPA 02: 1,026<br>VPA 03: 1,127<br>VPA 04: 1,142<br>VPA 05: 1,183<br>VPA 06: 1,174<br>VPA 07: 1,203<br>VPA 08: 830<br>VPA 09: 1,214<br>VPA 10: 1,098<br>Total: 10,832                                                                                                                                                                                                                                                                                              |
| Measurement methods and procedure | <p>For the determination of the number of usage days at household level for age group 4-5 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.</p> <p>Number of households included in the project (Units) are calculated based on days of usage of age group 4-5 during the corresponding monitoring period related to one year.</p> |

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|                      | For each household the number of days in each age group are calculated and divided by the number of days in one year. Hence, a household equipped with F3PA cookstove during 6 months of the MP would be considered as 0.5 household equivalent, this to ensure conservativeness in the ER calculations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Monitoring frequency | Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| QA/QC procedures     | Transparent data analysis and reporting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Purpose of data      | Calculation of emission reductions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Additional comment   | <p>A part of the households in the project area of the 10 VPA's 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.</p> <p>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.</p> <p>Women will be trained by the tiipaalga instructors or leader women to build the project cookstoves themselves using local materials according 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 the construction protocol and the management of the project database recording all constructed project cookstoves will be ensured.</p> |

| Relevant SDG Indicator            | SDG 13, Climate action                                             |
|-----------------------------------|--------------------------------------------------------------------|
| Data/ Parameter                   | DF <sub>n</sub>                                                    |
| Unit                              | Fraction                                                           |
| Description                       | Discount factor to account for efficiency loss of project stoves   |
| Source of data                    | Gold Standard Simplified Methodology for Efficient Cookstoves v1.0 |
| 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.                                                               |

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|--------------------|------------------------------------|
| Purpose of data    | Calculation of emission reductions |
| Additional comment | N.A.                               |

| Relevant SDG Indicator            | SDG 13, Climate action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <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                    | Annual usage/monitoring survey. See document: 'GS1340_VPA1-10_MP7_MS' / Tab 'Analysis'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Value(s) applied                  | 0.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 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> |

| Relevant SDG Indicator | SDG 13, Climate action                                                                        |
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| <b>Data/ Parameter</b> | <b>DF<sub>b,stove,2</sub></b>                                                                 |
| Unit                   | Percentage                                                                                    |
| Description            | Discount factor to account for the baseline stove use in project scenario p during the year 2 |
| Source of data         | Annual usage/monitoring survey. See document: 'GS1340_VPA1-10_MP7_MS' / Tab 'Analysis'.       |
| Value(s) applied       | 0.0%                                                                                          |

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| 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 1-2 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> |

| Relevant SDG Indicator            | SDG 13, Climate action                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Data/ Parameter</b>            | <b>DF<sub>b,stove,3</sub></b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Unit                              | Percentage                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Description                       | Discount factor to account for the baseline stove use in project scenario p during the year 3                                                                                                                                                                                                                                                                                                                                                                  |
| Source of data                    | Annual usage/monitoring survey. See document: 'GS1340_VPA1-10_MP7_MS' / Tab 'Analysis'.                                                                                                                                                                                                                                                                                                                                                                        |
| Value(s) applied                  | 0.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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                | The discount factor for the baseline-stove is determined based on the number of meals cooked using the baseline                                                                                                                                                                                                                                                                                                                                                |

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|  | <p>stove. The required information is captured through sample surveys carried out following a random sampling approach for age-group 2-3 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> |
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| Relevant SDG Indicator            | SDG 13, Climate action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Data/ Parameter                   | DF <sub>b,stove,4</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Unit                              | Percentage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Description                       | Discount factor to account for the baseline stove use in project scenario p during the year 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Source of data                    | Annual usage/monitoring survey. See document: 'GS1340_VPA1-10_MP7_MS' / Tab 'Analysis'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Value(s) applied                  | 0.88%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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 3-4 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> |

| Relevant SDG Indicator | SDG 13, Climate action  |
|------------------------|-------------------------|
| Data/ Parameter        | DF <sub>b,stove,5</sub> |

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit                              | Percentage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Description                       | Discount factor to account for the baseline stove use in project scenario p during the year 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Source of data                    | Annual usage/monitoring survey. See document: 'GS1340_VPA1-10_MP7_MS' / Tab 'Analysis'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Value(s) applied                  | 0.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 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 4-5 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> |

| Relevant SDG Indicator          | SDG 13, Climate Action                                                                                                                                                                                                                                                     |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data/ Parameter                 | Number of tCO <sub>2</sub> e reduced by the project                                                                                                                                                                                                                        |
| Unit                            | Tonne of CO <sub>2</sub> e                                                                                                                                                                                                                                                 |
| Description                     | Number of tCO <sub>2</sub> e 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 01-10 - ER_MP7'.                                                                                                                                                                                                              |
| Value(s) of monitored parameter | GS2456 (VPA-01): 5,656 tCO <sub>2</sub> e<br>GS3516 (VPA-02): 4,668 tCO <sub>2</sub> e<br>GS3517 (VPA-03): 8,919 tCO <sub>2</sub> e<br>GS3518 (VPA-04): 8,452 tCO <sub>2</sub> e<br>GS3519 (VPA-05): 8,193 tCO <sub>2</sub> e<br>GS3520 (VPA-06): 9,860 tCO <sub>2</sub> e |

|                                       |                                                                                                                                                                                                                      |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       | GS3521 (VPA-07): 8,418 tCO <sub>2</sub> e<br>GS3522 (VPA-08): 8,760 tCO <sub>2</sub> e<br>GS3523 (VPA-09): 9,049 tCO <sub>2</sub> e<br>GS3524 (VPA-10): 9,006 tCO <sub>2</sub> e<br>Total: 80,981 tCO <sub>2</sub> e |
| 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

| Data/Parameter | Value obtained in this monitoring period | Value obtained last monitoring period |
|----------------|------------------------------------------|---------------------------------------|
|----------------|------------------------------------------|---------------------------------------|

#### SDG 1

**Parameter #1:** Number of leader women (Monitrice endogène) who benefit from microcredit

**Parameter #2:** Proportion of leader women (Monitrice endogène) participating to microcredit scheme which make benefits from Income Generating Activities financed through the microcredit scheme

**Parameter #3:** Total benefit from Income Generating activities financed through the microcredit scheme

Parameter #1: 870  
Parameter #2: 99.5%  
Parameter #3:  
17,787,695 FCFA or  
27,194 €

Parameter  
#1: 867  
Parameter  
#2: N.A.<sup>7</sup>  
Parameter  
#3: N.A.

<sup>7</sup> During last monitoring period (MP6), the parameters #2 and #3 were not available as the amount granted to leader women was provided at the end of the 6<sup>th</sup> monitoring period (23/11/2021).

|                                                                                                                                                                                    |                                                            |                                                            |                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| SDG 3<br>Proportion of households perceiving less often smoke levels, incidence of coughing, incidence of respiratory illness, incidence of itchy eyes                             |                                                            | Smoke level reduction: 100%                                | Smoke level reduction: 100%                                |
|                                                                                                                                                                                    |                                                            | Incidence of coughing reduction: 100%                      | Incidence of coughing reduction: 100%                      |
|                                                                                                                                                                                    |                                                            | Incidence of respiratory illness reduction: 100%           | Incidence of respiratory illness reduction: 100%           |
|                                                                                                                                                                                    |                                                            | Incidence of itchy eyes reduction: 100%                    | Incidence of itchy eyes reduction: 100%                    |
|                                                                                                                                                                                    |                                                            |                                                            | Incidence of itchy eyes reduction: 100%                    |
| SDG 4                                                                                                                                                                              |                                                            |                                                            |                                                            |
| Parameter #1: Number of training initiatives for staff involved in the programme                                                                                                   |                                                            |                                                            | Parameter #1: 1                                            |
| Parameter #2: Number of workshops carried out for women                                                                                                                            |                                                            | Parameter #1: 1<br>Parameter #2: 307                       | Parameter #2: 368                                          |
| SDG 5                                                                                                                                                                              |                                                            |                                                            |                                                            |
| Proportion of stove users perceiving reduced amount of time spent on wood fuel collection and/or proportion of user perceiving reduced amount of money spent on wood fuel purchase | Reduced amount of time spent on wood fuel collection: 100% | Reduced amount of time spent on wood fuel collection: 100% | Reduced amount of time spent on wood fuel collection: 100% |
|                                                                                                                                                                                    | Reduced amount of money spent on wood fuel purchase: 100%  | Reduced amount of money spent on wood fuel purchase: 100%  | Reduced amount of money spent on wood fuel purchase: 100%  |
| SDG 7                                                                                                                                                                              |                                                            |                                                            |                                                            |
| Number of F3PA efficient cookstoves disseminated                                                                                                                                   | VPA 01: 6,151                                              | VPA 01: 8,351                                              |                                                            |
|                                                                                                                                                                                    | VPA 02: 5,557                                              | VPA 02: 8,390                                              |                                                            |
|                                                                                                                                                                                    | VPA 03: 8,779                                              |                                                            |                                                            |
|                                                                                                                                                                                    | VPA 04: 8,553                                              |                                                            |                                                            |

|        |                        |            |
|--------|------------------------|------------|
|        | VPA 05: 8,303          | VPA 03:    |
|        | VPA 06: 11,040         | 8,536      |
|        | VPA 07: 9,340          | VPA 04:    |
|        | VPA 08: 8,989          | 9,562      |
|        | VPA 09: 8,256          | VPA 05:    |
|        | VPA 10: 8,012          | 8,067      |
|        | Total : 82,980         | VPA 06:    |
|        |                        | 9,634      |
|        |                        | VPA 07:    |
|        |                        | 8,522      |
|        |                        | VPA 08:    |
|        |                        | 8,171      |
|        |                        | VPA 09:    |
|        |                        | 8,189      |
|        |                        | VPA 10:    |
|        |                        | 7,854      |
|        |                        | Total:     |
|        |                        | 85,276     |
| SDG 13 |                        | GS2456     |
| VER    |                        | (VPA-01):  |
|        |                        | 8,400tCO2e |
|        |                        | GS3516     |
|        |                        | (VPA-02):  |
|        | GS2456 (VPA-01): 5,656 | 7,832      |
|        | tCO2e                  | tCO2e      |
|        | GS3516 (VPA-02): 4,668 | GS3517     |
|        | tCO2e                  | (VPA-03):  |
|        | GS3517 (VPA-03): 8,919 | 9,507      |
|        | tCO2e                  | tCO2e      |
|        | GS3518 (VPA-04): 8,452 | GS3518     |
|        | tCO2e                  | (VPA-04):  |
|        | GS3519 (VPA-05): 8,193 | 9,908      |
|        | tCO2e                  | tCO2e      |
|        | GS3520 (VPA-06): 9,860 | GS3519     |
|        | tCO2e                  | (VPA-05):  |
|        | GS3521 (VPA-07): 8,418 | 8,841      |
|        | tCO2e                  | tCO2e      |
|        | GS3522 (VPA-08): 8,760 | GS3520     |
|        | tCO2e                  | (VPA-06):  |
|        | GS3523 (VPA-09): 9,049 | 9,592      |
|        | tCO2e                  | tCO2e      |
|        | GS3524 (VPA-10): 9,006 | GS3521     |
|        | tCO2e                  | (VPA-07):  |
|        | Total: 80,981 tCO2e    | 8,535      |
|        |                        | tCO2e      |
|        |                        | GS3522     |
|        |                        | (VPA-08):  |
|        |                        | 9,311      |
|        |                        | tCO2e      |

GS3523  
(VPA-09):  
10,000  
tCO<sub>2</sub>e  
GS3524  
(VPA-10):  
10,000  
tCO<sub>2</sub>e  
Total:  
91,926  
tCO<sub>2</sub>e<sup>8</sup>

#### D.4. Implementation of sampling plan

In parallel with the distribution/renewal of the F3PA efficient cookstoves, and as per monitoring plan in the respective registered VPA-DD's (VPA-01 to 10), tiipaalg 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 31/03/2022<br>To 19/07/2022 <sup>9</sup> | Monitoring survey | (i) To establish single usage rate factor of age group 0-1, age group 1-2, age group 2-3, age group 3-4 and age-group 4-5 based on 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';<br>(ii) To establish single discount factor age group 0-1, age group 1-2, age group 2-3, age group 3-4 and |

<sup>8</sup> Compared to last monitoring period (MP6), the issuances are 12% lower. This is largely explained by the lower usage rates determined during the annual monitoring survey (see document: 'GS1340\_VPA1-10\_MP7\_MS'). From the drawn sample of 550 households, 55 -or 10% of the initial sample- could not be visited due to insecurity reasons. Indeed, the project intervention area (provinces of Bam and Loroum in the North Region of Burkina Faso) and more globally the Sahel region are currently under high instability due to threats and attacks of violent armed groups. The attacks against civilians have led to hundreds of thousands of internally displaced persons<sup>8</sup>. Those 55 households initially in the sample could not be found and hence it was not possible to assess whether they are still using or not the F3PA improved cookstoves. To remain conservative, it was decided to consider them as non-users, hence a usage rate of (parameter Up,y) of 0%. This conservative assumption has direct impact on the ER estimations which lead to a decrease in the issuances compared to last year.

<sup>9</sup> Due to the insecurity situation and to preserve the safety of the surveyors, it was decided to extend the length of the Monitoring survey in order to visit a maximum of households part of the sample. By doing so, the surveys could take place only at periods where there was a lull in the visited villages. Despite this, 55 households could still not be visited.

|  |  |                                                                                                                    |
|--|--|--------------------------------------------------------------------------------------------------------------------|
|  |  | age group 4-5 to account for the baseline stove use;<br>(iii) To measure the parameters regarding SDG 3 and SDG 5. |
|--|--|--------------------------------------------------------------------------------------------------------------------|

## a) Collected data

The parameters which need to be monitored through surveys for the 10 VPA's 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 (iii) parameters to evaluate SDG 3 and SDG 5 indicators. Since those parameters of interest are assumed to be the same in each VPA at the time of sampling survey during the monitoring period and the start of the crediting period of the 10 VPA's lies within two months, a single survey with cross sampling of households has been undertaken using a single random sampling plan. The populations of all 10 VPAs are combined together, for which the sample size is calculated using the sampling guidelines described below.

## b) Sampling approach

### ***Determination of the sampling frame***

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 '*DR\_Tiipaalgā\_VPA01-10\_HH\_MP7*' and '*DR\_Tiipaalgā\_VPA01-10\_ICs\_MP7*'). Only the households recorded in the database are part of the project activity.

The project activities started in February 2015, but the renewal activities in 2020 and 2021 (described in SECTION C. DESCRIPTION OF MONITORING SYSTEM APPLIED BY THE PROJECT) intended to replace/renew the cookstoves installed in the first year and second years of the project (respectively 2015 and 2016). The start of the crediting period of each household is considered as the latest construction/replacement date of all stoves within the cooking sets of the different wives within the household. This information is presented in the file '*Tiipaalgā\_VPA1-10\_MP7\_Date recente\_All HH*' for the different households included in the database (see also Figure 3 for the representation of the project database during MP7). Hence, the project database in MP7 comprises the following households:

- i. **Remaining households:** which were equipped with F3PA cookstoves during previous monitoring periods and are since part of the project database. Those will be included in future renewal campaigns in the subsequent monitoring periods.
- ii. **Renewed households:** which were initially equipped with F3PA cookstoves in the past but participated successfully to the renewal activities. Hence, all their cookstoves are in a state "as good as new" and belong again in the AG 0-1 at renewal.
- iii. **New households:** new households equipped with F3PAs. Those did not belong to the project database prior to this monitoring period.

The households equipped with F3PA cookstoves set in 2016 but did not participate to the renewal activities are discarded from the project database (removed households). For each household the number of technology-days during MP7 are calculated per age group: (i) age group 0-1 (i.e. construction date till construction date + 365 days), (ii) age group 1-2 (i.e. construction date + 365 days till construction date + 2 \* 365 days), (iii) age group 2-3 (i.e. construction date + 2 \* 365 days till construction date + 3 \* 365 days), (iv) age group 3-4 (i.e. construction date + 3 \* 365 days till construction date + 4 \* 365 days), and (v) age group 4-5 (i.e. construction date + 4 \* 365 days till construction date + 5 \* 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.

### ***Determination of the random sample***

Each household is assigned to one age group (AG) depending on the years of usage up to the sampling date. For example, at the sampling date (28/02/2022), a household installed on the 19/05/2021 has used its F3PAs cookstoves for 0.78 years; hence it belongs to the AG 0-1 for the monitoring and usage survey. At the sampling date (28/02/2022), there were 6 age groups, i.e. 0-1 age group, 1-2 age group, 2-3 age group, 3-4 age group, 4-5 age group and 5-6 age group. The households belonging to the AG5-6 are excluded from the sampling frame since no technology days are claimed for this age-group for this MP. Those households will reintegrate the project data base as part of AG0-1 if they participate to renewal activities during the next verification period. If not, they will not be removed from the project database.

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 v1.0):

- Project target population < 300: Minimum sample size 30;
- Project target population 300 to 1,000: Minimum sample size 10 % of group size;
- Project target population > 1,000: Minimum sample size 100.

As the number of recorded households<sup>10</sup> for the 10 VPA's together per age group is more than 1,000, the minimum sample size for age-group 0-1, age-group 1-2, age-group 2-3 age group 3-4 and age group 4-5 is 100.

The method for the random section of households for the sampling list is the following<sup>11</sup>: all the households are ordered based on their years of usage (oldest till newest). A randomization per age-group is made based on this number using the random sequence generator *Randomdraws* (<https://www.randomdraws.com/random-sequence-generator/>). From those new randomized lists, the *n* first households (*n* being greater than the minimum sampling size) are included in the sample.

The selection of the sample for the monitoring survey is summarized in Table 4.

<sup>10</sup> See document: 'Tiipaalgä\_VPA1-10\_MP7\_Date recente\_All HH'/Tab 'Analysis'.

<sup>11</sup> Refer to document 'Tiipaalgä\_VPA1-10\_Sampling MP7'/Tab 'Sampling method' for more details.

| Age group at sampling date | #Households   | Minimum sample size                                                  | #households surveyed |
|----------------------------|---------------|----------------------------------------------------------------------|----------------------|
| AG 0-1                     | 6,622         | 100                                                                  | 110                  |
| AG 1-2                     | 7,970         | 100                                                                  | 110                  |
| AG 2-3                     | 2,410         | 100                                                                  | 110                  |
| AG 3-4                     | 1,455         | 100                                                                  | 110                  |
| AG 4-5                     | 6,286         | 100                                                                  | 110                  |
| AG 5-6                     | 6,346         | <i>Excluded from sampling frame since no technoly.days during MP</i> |                      |
| <b>Total</b>               | <b>31,089</b> | <b>500</b>                                                           | <b>550</b>           |

Table 4 Number of surveys conducted for MP7 verification

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.

### c) Analysis of collected data

The questions used during the survey are presented in the file 'GS1340\_VPA01-10\_Monitoring Survey\_MP7'<sup>12</sup>. Apart from information for the sustainable development indicators (SDG 3 and SDG 5), the survey has been built up in order to collect reliable data to calculate the usage rate  $U_{p,y}$  per age group and the discount factor to account for the baseline stove use  $DF_{b,stove,y}$  per age group.

The file 'GS1340\_VPA1-10\_MP7\_MS' of the monitoring survey 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, construction 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 T and the discount factor to account for the baseline stove use  $DF_{b,stove,y}$  per households in column AU. 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. The surveyed households are per age group presented with pictures of stove users and stoves in the file : 'GS1340\_VPA1-10\_list of surveyed HH\_MP7'.

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

<sup>12</sup> Document is in French. However, translation of the questions is available in the headers of the monitoring survey results file 'GS1340\_VPA1-10\_MP7\_MS'.

- 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 or is not available for the survey for security reasons, the corresponding household is considered as a drop-off;

Based on the collected data during the survey for monitoring period the usage rate  $U_{p,1}$  of age group 0-1 is evaluated at 81.82%, whereas for usage rate  $U_{p,2}$  of age group 1-2 at 78.18%, for usage rate  $U_{p,3}$  of age group 2-3 at 78.18%, for usage rate  $U_{p,4}$  of age group 3-4 at 73.64% and for usage rate  $U_{p,5}$  of age group 4-5 at 62.73% . In total 138 households out of the 550 households surveyed across the five age groups had a usage rate of 0% because of too bad condition of at least one F3PA efficient cookstove (status red), migration or displacement of the household, broken F3PA efficient cookstoves or death of the stove user. All other project cookstoves were used and in operational conditions. From the drawn sample of 550 households, 55 -or 10% of the initial sample- could not be visited due to insecurity reasons. Indeed, the project intervention area (provinces of Bam and Loroum in the North Region of Burkina Faso) and more globally the Sahel region are currently under high instability due to threats and attacks of violent armed groups. The attacks against civilians have led to hundreds of thousands of internally displaced persons<sup>13</sup>. Those 55 households initially in the sample could not be found and hence it was not possible to assess whether they are still using or not the F3PA improved cookstoves. To remain conservative, it was decided to consider them as non-users, hence a usage rate of (parameter  $U_{p,y}$ ) of 0%.

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 *GS1340\_VPA1-10\_MP7\_MS'* columns BB till BS) (i) relative based on a week usage during dry and wet season; (ii) absolute based on total number of usages during dry and wet seasons. 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 31nd of October, which is 153 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;

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<sup>13</sup>See online situation report from United Nations Office for the Coordination of Humanitarian Affairs (UN OCHA) report: <https://reports.unocha.org/fr/country/burkina-faso/> (consulted on the 07/09/2022).

- 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 fractions have been evaluated at 0.0% for age group 0-1, 0.0% for age group 1-2, 0.0% for age group 2-3, 0.88% for age group 3-4 and 0.0% for age group 4-5. This means that, on average, less than 1 meal out of 100 meals are cooked with the baseline stove which can be considered as low.

#### **d) Requirement on confidence/precision level**

In alignment with the methodology 'the Gold Standard Simplified Methodology for Efficient Cookstoves v1.0', no confidence nor precision requirements are expected to be fulfilled for the monitoring survey results.

## **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 v1.0, the net emission reductions (ERy) 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.

**Proportion of leader women (Monitrice endogène) participating to microcredit scheme which make benefits from Income Generating Activities financed through the microcredit scheme** = Number of leader women (Monitrice endogène) participating to microcredit scheme which make benefits from Income Generating Activities financed through the microcredit scheme / Number of leader women (Monitrice endogène) participating to the microcredit scheme

**Total benefit from Income Generating activities financed through the microcredit scheme** = 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) 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)

*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

**Number of workshops carried out for women** = Number of workshops carried out for women during the monitoring period

*d) SDG 5, Gender equality*

**Proportion of stove users perceiving reduced amount of time spent on fuel collection** = (Number of stove users perceiving reduced amount of time spent on fuel collection) / (Number of respondents collecting wood fuel)

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) **Doing nothing<sub>p</sub>** = (Number of women using their saved time 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 leisure) / (Number of women considering they save time thanks to the F3PA efficient cookstoves)

**Proportion of stove users perceiving reduced amount of money spent on wood fuel purchase** = (Number of stove users perceiving reduced amount of money spent on wood fuel purchase) / (Number of respondents purchasing fuel)  
 Usage of saved money by women:

- i. **School fees<sub>p</sub>** = (Number of women using their saved money for the payment of school fees) / (Number of women considering they save money thanks to the F3PA efficient cookstoves)
- ii. **Purchase of medical drugs<sub>p</sub>** = (Number of women using their saved money for the purchase of medical drugs) / (Number of women considering they save money thanks to the F3PA efficient cookstoves)
- iii. **Purchase of food<sub>p</sub>** = (Number of women using their saved money for the purchase of food) / (Number of women considering they save money thanks to the F3PA efficient cookstoves)
- iv. **Investment for field crops<sub>p</sub>** = (Number of women using their saved money to invest in field crops) / (Number of women considering they save money thanks to the F3PA efficient cookstoves)
- v. **Purchase of equipments<sub>p</sub>** = (Number of women using their saved money to purchase equipments like mobile, bicycle, ...) / (Number of women considering they save money thanks to the F3PA efficient cookstoves)
- vi. **Income generating activities<sub>p</sub>** = (Number of women using their saved money for income generating activities) / (Number of women considering they save money thanks to the F3PA efficient cookstoves)
- vii. **Savings<sub>p</sub>** = (Number of women using their saved money for their savings) / (Number of women considering they save money thanks to the F3PA efficient cookstoves)

e) *SDG 7, Affordable and clean energy*

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

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.

$$ER_y = \sum_{0 \text{ to } 1}^{x \text{ to } y} N_{P,y} * P_y * U_{P,y} * (f_{NRB,y} * EF_{b,fuel,CO2} + EF_{b,fuel,nonCO2}) * (1 - DF_{b,Stove,y})$$

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                                                               |
| $EF_{b,fuel,CO2}$    | CO2 emission factor of firewood that is substituted or reduced                                                             |
| $EF_{b,fuel,nonCO2}$ | 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 ( $P_y$ ):**

Quantity of firewood that is saved ( $P_y$ ) 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 ( $B_{b,y}$ ):**

The firewood consumed is the estimated average annual consumption of firewood per household (tonnes/year), which may be derived using option (c) of the methodology: minimum service level i.e. energy derived from the combustion of 0.5 tonnes per capita per year as the default baseline biomass consumption. The average household size per municipality is available in the "Recensement général de la population et de l'habitation (RGPH) de 2006 du Burkina Faso"<sup>14</sup> or the general census of the population and habitat of Burkina Faso, table 15.

### **Determination of project cookstove efficiency ( $\eta_{p,y}$ and $\eta_p$ ):**

Efficiency of project cookstove in year y ( $\eta_{p,y}$ ) is estimated as follows:

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

Where

|              |                                                                                                      |
|--------------|------------------------------------------------------------------------------------------------------|
| $\eta_{p,y}$ | Efficiency of project cookstove in year y (fraction)                                                 |
| $\eta_p$     | Efficiency of project cookstove (fraction) determined at the start of the project activity           |
| $DF_{\eta}$  | 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            |

| SDG | SDG Impact | B  | Projec | Net     |
|-----|------------|----|--------|---------|
|     |            | a  | t      | benefit |
|     |            | s  | estima |         |
|     |            | el | te     |         |
|     |            | in |        |         |
|     |            | e  |        |         |
|     |            | e  |        |         |
|     |            | st |        |         |

<sup>14</sup> INSD, recensement général de la population et de l'habitation de 2006, juillet 2008, Ministère de l'Economie et des Finances, p43 (tableau 15), 52 pages

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                        | i<br>m<br>a<br>t<br>e                                                                                                                                                                                                                                     |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                        | VPA-01: 5,656 tCO2e<br>VPA-02: 4,668 tCO2e<br>VPA-03: 8,919 tCO2e<br>VPA-04: 8,452 tCO2e<br>VPA-05: 8,193 tCO2e<br>VPA-06: 9,860 tCO2e<br>VPA-07: 8,418 tCO2e<br>VPA-08: 8,760 tCO2e<br>VPA-09: 9,049 tCO2e<br>VPA-10: 9,006 tCO2e<br>Total: 80,981 tCO2e |
| 13 | Number of tCO2e reduced by the project                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                           |
| 1  | <p><b>Parameter #1:</b> Number of leader women (Monitrice endogène) who benefit from microcredit</p> <p><b>Parameter #2:</b> Proportion of leader women (Monitrice endogène) participating to microcredit scheme which make benefits from Income Generating Activities financed through the microcredit scheme</p> <p><b>Parameter #3:</b> Total benefit from Income Generating activities financed through the microcredit scheme</p> | <p>Parameter #1: 870</p> <p>Parameter #2: 99.5%</p> <p>Parameter #3: 17,787,695 FCFA or 27,194€</p>                                                                                                                                                       |
|    | <i>Proportion of households perceiving:</i>                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                           |
| 3  | <p>Smoke level reduction</p> <p>Incidence of coughing reduction</p> <p>Incidence of respiratory illness reduction</p> <p>Incidence of itchy eyes reduction</p>                                                                                                                                                                                                                                                                         | <p>100%</p> <p>100%</p> <p>100%</p> <p>100%</p>                                                                                                                                                                                                           |
| 4  | <p><b>Parameter #1:</b> Number of training initiatives for staff involved in the programme</p> <p><b>Parameter #2:</b> Number of workshops carried out for women</p>                                                                                                                                                                                                                                                                   | <p>Parameter #1: 1</p> <p>Parameter #2: 307</p>                                                                                                                                                                                                           |

|   |                                                                                                                                                                                    |                                                            |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| 5 | Proportion of stove users perceiving reduced amount of time spent on wood fuel collection and/or proportion of user perceiving reduced amount of money spent on wood fuel purchase | Reduced amount of time spent on wood fuel collection: 100% |
|   |                                                                                                                                                                                    | Reduced amount of money spent on wood fuel purchase: 100%  |
| 7 | Number of F3PA efficient cookstoves disseminated                                                                                                                                   | VPA 01: 6,151                                              |
|   |                                                                                                                                                                                    | VPA 02: 5,557                                              |
|   |                                                                                                                                                                                    | VPA 03: 8,779                                              |
|   |                                                                                                                                                                                    | VPA 04: 8,553                                              |
|   |                                                                                                                                                                                    | VPA 05: 8,303                                              |
|   |                                                                                                                                                                                    | VPA 06: 11,040                                             |
|   |                                                                                                                                                                                    | VPA 07: 9,340                                              |
|   |                                                                                                                                                                                    | VPA 08: 8,989                                              |
|   |                                                                                                                                                                                    | VPA 09: 8,256                                              |
|   |                                                                                                                                                                                    | VPA 10: 8,012                                              |
|   |                                                                                                                                                                                    | Total : 82,980                                             |

### 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>15</sup> achieved during this monitoring period |
|-----|------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 13  | GS2456 (VPA-01): 9,991 VER                                                         | GS2456 (VPA-01): 5,656 VER                                         |
|     | GS3516 (VPA-02): 9,563 VER                                                         | GS3516 (VPA-02): 4,668 VER                                         |
|     | GS3517 (VPA-03): 10,000 VER                                                        | GS3517 (VPA-03): 8,919 VER                                         |
|     | GS3518 (VPA-04): 9,995 VER                                                         | GS3518 (VPA-04): 8,452 VER                                         |
|     | GS3519 (VPA-05): 9,994 VER                                                         | GS3519 (VPA-05): 8,193 VER                                         |
|     | GS3520 (VPA-06): 10,000 VER                                                        | GS3520 (VPA-06): 9,860 VER                                         |
|     | GS3521 (VPA-07): 10,000 VER                                                        | GS3521 (VPA-07): 8,418 VER                                         |
|     | GS3522 (VPA-08): 9,994 VER                                                         | GS3522 (VPA-08): 8,760 VER                                         |
|     | GS3523 (VPA-09): 9,990 VER                                                         | GS3523 (VPA-09): 9,049 VER                                         |
|     | GS3524 (VPA-10): 9,999 VER                                                         | GS3524 (VPA-10): 9,006 VER                                         |

<sup>15</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.

**Total: 99,526 VER**

**Total: 80,981 VER**

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

N.A.

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

The difference between the actual values achieved during monitoring period 7 and the estimated value of year 7 in the registered PDD can mainly be attributed to lower usage rate than expected. More drop-offs have been registered during the monitoring survey, as some households left their village due to increased insecurity in the region.

## **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.**

The list of grievances collected in the grievance book (see document : '*Grievance book F3PA Bam Loroum VPA1-10*') is resumed in the following table.

| Date       | Continuous Input Method Used | Person/Entity                     | Municipality        | Comment                                                                                                     | Response from Association tiipaalga                                 |
|------------|------------------------------|-----------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 19/10/2021 | Grievance book               | COGES FAME de Manegtaaba          | Manegtaaba/Tikaré   | Application for a waiver of repayment of the microcredit                                                    | Derogation accepted                                                 |
| 19/11/2021 | Grievance book               | SAWADAGO Karim- COGES Boulmiougou | Boulmiougou/Nasséré | Request for support for a loan to the credit union for the benefit of MEs after the withdrawal of tiipaalga | Demand accepted following an information letter to the credit union |
| 25/11/2021 | Grievance book               | COGES FAME Foutanga               | Foutanga/Nasséré    | Contact with the credit union with a view to a group loan for                                               | Demand accepted following an information                            |

the benefit of  
MEs

letter to the  
credit union

## 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 2021 | Hyperlinked section summary to enable quick access to key sections<br>Improved clarity on Key Project Information<br>Section for POA monitoring<br>Forward action request section<br>Improved Clarity on SDG contribution/SDG Impact term used throughout<br>Clarity on safeguard reporting<br>Clarity on design changes<br>Leakage section added for VER/CER projects<br>Addition of Comparison of monitored parameters with last monitoring period<br>Provision of an <a href="#">accompanying Guide</a> to help the user understand detailed rules and requirements |
| 1.0     | 10 July 2017    | Initial adoption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |