

CDM-EB86-AA-A14

Draft Standardized baseline

Institutional Cook Stoves in Uganda

Version 01.0

DRAFT



United Nations
Framework Convention on
Climate Change

COVER NOTE

1. Procedural background

1. An initial submission on standardized baseline, PSB0028 "Standardized baseline for institutional cook stoves in Uganda", was received from the designated national authority (DNA) of Uganda on 21 January 2015. In response to the issues raised, additional submission was received from the DNA on 14 May 2015.
2. This standardized baseline is derived from and used together with small-scale methodology AMS-II.G "Energy efficiency measures in thermal applications of non-renewable biomass" and/or small-scale methodology AMS-I.E "Switch from non-renewable biomass for thermal applications by the user".
3. In accordance with the "Procedure for the submission and consideration of standardized baselines", the following steps were undertaken:
 - (a) The submission of the PSB0028 was assessed by the secretariat;
 - (b) A draft recommendation and a draft version of the standardized baseline were prepared by the secretariat and were reviewed by two members of the SSC WG initially and subsequently by the whole SSC WG at its 48th meeting. The SSC WG found the analysis contained in the recommendation sufficient to recommend the proposed standardized baseline for approval by the Board.
4. The PSB was recommended with conservative values:
 - (a) The proposed value on baseline woody biomass consumption takes into account best available information (e.g. comprehensive analysis of wood fuel supply and demand in the context of Uganda by FAO¹);
 - (b) The proposed value of 12% for the efficiency of pre-project institutional cook stove is also conservative because the relevant studies² show that over 90% of institutions in Uganda use traditional unimproved cook stoves (for which the default value of 10% efficiency is indicated in AMS II-G).

¹ "WISDOM – East Africa" (Rudi Drigo, 2005), which is available at <http://www.fao.org/docrep/009/j8227e/j8227e00.HTM>. See the table summarising total and per capita fuelwood and charcoal consumption on page 64.

² For example, "National Biomass Energy Demand Strategy 2001 – 2010" (Ministry of Energy and Mineral Development, 2001), which is available at <http://www.energyandminerals.go.ug/downloads/BEDS-Contents.pdf> and "Inspection and evaluation of institutional stoves adoption and performance in schools and institutions" (Ministry of Energy and Mineral Development, 2011)

5. The draft standardized baseline takes into account comments received from the Board during 28 days' commenting period (from 31 July 2015 until 27 August 2015) in accordance with the "Procedure for the submission and consideration of standardized baselines". The changes are highlighted in yellow.

2. Purpose

6. The purpose of this document is to present a standardized baseline which provides the values of baseline woody biomass consumption and the efficiency of pre-project institutional cook stoves in Uganda.

3. Impacts

7. The standardized baseline, if adopted, will facilitate the development of CDM projects for institutional cook stove sector in Uganda.

4. Subsequent work and timelines

8. No further work is required.

5. Recommendations to the Board

9. The secretariat recommends that the Board adopt the standardized baseline.

6. References

7. The documents pertaining to the submission of standardized baselines are available at the following page on the CDM website:
<http://cdm.unfccc.int/methodologies/standard_base/index.html>

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1. Introduction

1. This standardized baseline provides the values for input parameters such as baseline woody biomass consumption **per person** to estimate emission reduction from project activities for efficient institutional cook stoves in Uganda.

2. Scope, applicability, entry into force and validity

2.1. Scope and applicability

2. The scope of the standardized baseline covers the values of baseline woody biomass consumption **per capita** and the efficiency of pre-project institutional cook stoves³ in Uganda. **The standardized baseline is only applicable to the cookstoves of the following type of institutions:**

- (a) **Boarding Schools;**
- (b) **Day Schools; and**
- (c) **Prisons, Plantation estates and Hospitals**

3. Clean development mechanism (CDM) project activities can apply this standardized baseline under the following conditions:
 - (a) The project activity is implemented in Uganda;
 - (b) The CDM methodology that is applied to the project activity is small-scale methodology AMS-II.G “Energy efficiency measures in thermal applications of non-renewable biomass” and/or small-scale methodology AMS-I.E “Switch from non-renewable biomass for thermal applications by the user”.

4. Project participants who do not wish to use this standardized baseline may alternatively estimate their own values, by applying the latest applicable version of the methodology.

2.2. Entry into force and validity

5. This standardized baseline enters into force upon adoption by the CDM Executive Board on 27 August 2015. This standardized baseline is valid from **## Month 27 August** 2015 to **## Month 26 August** 2018.

3. Normative references

6. This standardized baseline is based on the proposed new standardized baseline PSB0028 “Institutional Cook Stoves in Uganda” submitted by the designated national authority (DNA) of Uganda.
7. This standardized baseline is derived from small-scale methodology AMS-II.G “Energy efficiency measures in thermal applications of non-renewable biomass” and small-scale

³ Commercial establishments such as restaurants and hotels are excluded.

methodology AMS-I.E “Switch from non-renewable biomass for thermal applications by the user”.

8. For more information regarding the proposed new standardized baseline as well as their consideration by the CDM Executive Board, please refer to: http://cdm.unfccc.int/methodologies/standard_base/index.html.

4. Definitions

9. The definitions contained in the Glossary of CDM terms shall apply.
10. The definitions contained in the latest version of AMS-II.G and AMS-I.E shall apply.

5. Parameters, values and additionality criterion

11. ~~In cases where the~~ CDM project activities shall use this standardized baseline together with AMS-II.G “Energy efficiency measures in thermal applications of non-renewable biomass” version 7.0 ~~or~~ and AMS-I.E “Switch from non-renewable biomass for thermal applications by the user” version 6.0⁴, the following shall apply:
- (a) Additionality demonstration: The project activities which introduce improved institutional cook stoves in Uganda under AMS-II.G or AMS-I.E are deemed automatically additional, as per the “Methodological tool for demonstration of additionality of small-scale project activities”;
- (b) Baseline emission estimation: For the estimation of baseline emissions of project activities, the provisions in the methodology AMS-II.G version 7.0 or AMS-I.E version 6.0 for determining the values of the parameters listed in Table 1 below do not apply. Instead, standardized values provided in the Table 1 below shall be used.

Table 1. Standardized values for AMS-II.G and AMS-I.E

Parameter	Unit	Description	Applicable values	Source
$f_{NRB,y}$ under AMS-II.G or AMS-I.E	fraction	Fraction of woody biomass that can be established as non-renewable biomass	0.82	http://cdm.unfccc.int/DNA/fNRB/index.html

⁴ The standardized baseline can be used together with future versions of methodologies AMS-II.G or AMS-I.E as long as the requirements related to the parameters mentioned in table 1 do not change.

Default quantity of baseline woody biomass per person to determine $B_{old,i,j}$ under AMS-II.G	tonnes/ person/ year	The default value is used to determine $B_{old,i,j}$ “Annual quantity of woody biomass that would have been used in the absence of the project activity to generate useful thermal energy equivalent to that provided by the project device type i and batch j (in tonnes/year)”	The standardized values provided are in tonnes/person/year. Number of persons served per device shall be based on survey conducted prior to project implementation. <table><tr><td>Institution Type</td><td>Value</td></tr><tr><td>Boarding Schools</td><td>0.38</td></tr><tr><td>Day Schools</td><td>0.19</td></tr><tr><td>Residential institutions: Prisons, Plantation estates and Hospitals (excluding commercial institutions such as restaurants and hotels)</td><td>0.59</td></tr></table>	Institution Type	Value	Boarding Schools	0.38	Day Schools	0.19	Residential institutions: Prisons, Plantation estates and Hospitals (excluding commercial institutions such as restaurants and hotels)	0.59	Based on the data provided in PSB0028
Institution Type	Value											
Boarding Schools	0.38											
Day Schools	0.19											
Residential institutions: Prisons, Plantation estates and Hospitals (excluding commercial institutions such as restaurants and hotels)	0.59											
Default quantity of baseline woody biomass per person to determine B_y under AMS-I.E	tonnes/ person/ year	The default value is used to determine B_y “Quantity of woody biomass that is substituted or displaced (in tonnes/year)”										
$\eta_{old,i,j}$ under AMS-II.G	fraction	Efficiency of pre-project cook stove	0.12	Based on the data provided in PSB0028								

Document information

Version	Date	Description
01.0	28 September 2015	Published as an annex to the annotated agenda of EB86. The draft standardized baseline takes into account comments received from the Board in accordance with the "Procedure: Development, revision, clarification and update of standardized baselines" (CDM-EB63-A28-PROC).
Decision Class: Regulatory Document Type: Standard Business Function: Methodology Keywords: Uganda, biomass, household appliances, standardized baselines		