



**Approved baseline and monitoring methodology/
methodological tool clarification response form
(Version 02.0)**

INFORMATION TO BE COMPLETED BY THE SECRETARIAT OR PANEL/ WG

Date and number of Panel/ WG meeting:	27–30 October 2014, SSC WG 46
Title/Subject of the request for clarification:	Clarification on the monitoring requirements for usage days of project devices and baseline stoves under AMS-II.G.
Reference number of the request for clarification:	SSC_713
Exact reference (number, title and version) of the methodology or methodological tool to which the request for clarification applies:	“AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass - Version 6.0”
Fast track or Regular track:	<input type="checkbox"/> Fast track <input checked="" type="checkbox"/> Regular track

Summary of the request for clarification

Original text from the PP:

With reference to our recent request SSC_711 on AMS-II.G, version 6, we would like to ask for further clarification.

We make reference to the PoA currently under validation titled "Dissemination of improved cook stoves and generation of charcoal", currently being webhosted under <http://cdm.unfccc.int/ProgrammeOfActivities/Validation/DB/71KQB065BOYM4SHSRDQ4QSP5E3Y3NA/view.html>

Under this PoA, it is planned to disseminate efficient micro gasifier stoves for cooking which save fuel wood and generate charcoal as a waste product. Charcoal is collected and used as fuel, replacing conventional charcoal. For this same PoA, a past request for clarification (SSC_704) on AMS-III.BG had been made earlier and positively responded.

Our request is on the possibility of determining ER under AMS-II.G version 6 by directly monitoring biomass consumption in the project device, applying equation (6). Accurate monitoring of biomass used in the micro gasifier stoves is possible since these stoves are batch-loaded with standardized quantities of fuel and, furthermore, charcoal generation can be monitored which is proportional to biomass consumption in project devices.

In our recent request SC_711, we have noted that we did not explain well enough that, in our opinion, the current version of AMS-II.G contains a mistake that should be corrected. We try to give a better explanation here. In order to illustrate the issue and to highlight the mistake, a hypothetical example is described. (It is a simplified, hypothetical case, not identical to the case of the proposed PoA mentioned above):

- An improved cookstove is fully replacing the baseline stove during 250 days (68%) of the year, but it is not used during the remaining 115 days. (For example because dry fuelwood would be needed that is not available during the rainy season).

- Equation (6) is applied. When determining $B_{new,survey}$ correctly, the usage time of 250 days will be considered, since $B_{new,survey}$ refers to the annual quantity of biomass used. The usage time of 250 days is therefore included in the calculation of $B_{savings}$.

- Then equation (2) is applied for calculating ER. According to version 6 of AMS-II.G, the days of usage have to be considered again by multiplying with μ (250/365 in this case). Therefore, the **days of usage enter the calculation twice**; ER are calculated as if the project device was used only during 47% of the year (square of 250/365). In order to correct this mistake and not to account twice for the days of usage in the ER calculation, μ should be set to 365 in the case that equation 6 is applied.

If $B_{new,survey}$ is determined correctly, it will always include usage days.

- Moreover, if determining $B_{savings}$ by measuring $B_{new,survey}$ and stove efficiencies, the calculation of ER is solely based on the fuelwood consumption in the **project device**; a possible continued usage of a baseline stove is not relevant for ERs. As described above, in the PoA under validation we are able to clearly measure the fuelwood consumption in the project device by measuring the amount of a standard batch load, counting numbers of fillings per day and cross-checking with the amount of charcoal produced in the new stoves. It is therefore not plausible that a possible continued usage of baseline stoves needs to be monitored.

We therefore like to request clarification that: Monitoring of baseline stoves according to para. 22-24 is not required if equation 6 is applied since it is not relevant for ER. (There may be cases where monitoring of baseline stoves is required as a component of the survey to determine $B_{new,survey}$, but this should be mentioned under section 17).

Clarification by the secretariat or Panel/ WG

The Small-Scale Working Group (SSC WG) of the Executive Board (hereinafter referred to as the Board) of the clean development mechanism (CDM) would like to thank the author for the submission.

As applied to water boiling test, equation 6 indicates two simplified methods for one time estimates of the baseline consumption of biomass. With that baseline consumption established, efficiency of the stoves is the only parameter that needs to be tracked during the crediting period. To ensure that this simplified monitoring method is reliable, the methodology indicates the conditions under which it can be applied i.e. either the baseline stove is completely discarded or when used together with the project stoves a rigorous monitoring campaign is conducted to quantify the baseline consumptions.

The case referred in the submission involves micro gasifier stoves which is a unique one as it allows direct monitoring of the biomass batch loaded into the project stoves as well as the charcoal output by the stove. In such a case, the SSC WG agreed that the monitoring of the biomass consumption in the baseline stoves as per paragraph 22 to 24 of the methodology may serve to cross check the calculation but is not indispensable.

As an alternative to the measurement campaign indicated in paragraph 22 to 24 of the methodology to establish the parameter " $B_{y=1,new,i,survey}$ ", where a specific type of biomass is used for example, pellets or rice husk in gasifier stoves, the project participant may choose to directly monitor the biomass consumption annually in the project device. This shall be undertaken by measuring directly:

- The Biomass used in the project device (weight or volume based measurement if necessary on a sample basis); and
- A by-product from the stove usage that has a linear relationship with the biomass fed into the stove (e.g. charcoal by-product). Weight or volume based measurement may be undertaken if necessary on a sample basis for the cross check purposes.

In this case the requirements in paragraph 22-24 of the methodology related to measurement campaign to establish the biomass consumption shall not apply.

The fraction multiplier in equation 2 with denominator as 365 is included to cover the case where the efficient project stove was operated only for a part of the year due to logistics of the stove distribution during the initial phase of the project implementation, or if the biomass supply to the improved cookstove is not able to attend the full year, e.g. for seasonal constraints. It may be set to 1 (365/365) if the number of days for which project stoves operation does not face any constraint.

The SSC WG agreed to include this option in equation 6 in a future revision of the AMS-II.G. that it will recommend to the Board.

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
02.0	18 July 2013	Revised to remove the row “Date and signature of the chair and vice chair of Panel/WG (in case of clarification by Panel/WG)”
01.0	4 July 2013	Initial publication. This document supersedes and replaces the following documents: <ul style="list-style-type: none">• Recommendation Form for Small Scale Methodologies (F-CDM-SSCwg) (Version 01.1)• Recommendation Form for Small Scale A/R Methodologies and Procedures (F-CDM-SSC-AR) (Version 01.1)
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