

**SMALL-SCALE CDM PROGRAMME ACTIVITY DESIGN DOCUMENT FORM
(CDM-SSC-CPA-DD) - Version 01**



NAME /TITLE OF THE PoA:

Improved Cooking Stoves Programme of Activities in Africa



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**CLEAN DEVELOPMENT MECHANISM
SMALL-SCALE PROGRAM ACTIVITY DESIGN DOCUMENT FORM (CDM-SSC-CPA-DD)
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NOTE:

- (i) This form is for submission of CPAs that apply a small scale approved methodology using the provision of the proposed small scale CDM PoA.
- (ii) The coordinating/managing entity shall prepare a CDM Small Scale Programme Activity Design Document (CDM-SSC-CPA-DD)^{1,2} that is specified to the proposed PoA by using the provisions stated in the SSC PoA DD. At the time of requesting registration the SSC PoA DD must be accompanied by a CDM-SSC CPA-DD form that has been specified for the proposed SSC PoA, as well as by one completed CDM-SSC CPA-DD (using a real case). After the first CPA, every CPA that is added over time to the SSC PoA must submit a completed CDM-SSC CPA-DD.

¹ The latest version of the template form CDM-CPA-DD is available on the UNFCCC CDM web site in the reference/document section.

² At the time of requesting validation/registration, the coordinating managing entity is required to submit a completed CDM-POA-DD, the PoA specific CDM-CPA-DD, as well as one of such CDM-CPA-DD completed (using a real case).

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SECTION A. General description of small scale CDM programme activity (CPA)

A.1. Title of the small-scale CPA:

Improved Cooking Stoves Programme of Activities in Africa – CPA No. ##### (state identification number of CPA) (### state country in which the CPA takes place)
##/##/#### (date)
Version #.#

A.2. Description of the small-scale CPA:

The purpose of this CDM Programme Activity (CPA) is the dissemination of improved cooking stoves (ICS) in ### state country in which the CPA takes place. The CPA will replace cooking stoves using ### (state fuel type/s) with more efficient stoves using ### (state fuel type/s – wood, charcoal or both).

Stoves disseminated under this CPA are ### (state type of stoves – portable, fixed or both) serving ### (state user groups – domestic, commercial or both) ### (state fuel type/s) users. These ICS are more efficient in transferring heat from the fuel to the pot, thus saving fuel ### (state fuel type/s – wood, charcoal or both) compared to the ### (state fuel type/s – wood, charcoal or both) stoves currently used by households. Furthermore, the ICSs applied in this CPA have been designed not only to increase heat transfer, but also to match traditional utensils and cooking habits.

In line with CDM methodology AMS. II G v3.0 it is assumed that in the absence of the programme activity, the baseline scenario would be the use of fossil fuels for meeting similar thermal energy needs. Therefore, by reducing the total amount of fuel required for cooking, the replacement of ### (state type of stoves to be replaced – traditional, less efficient ICS or both) stoves by ICS reduces the amount of GHG emitted into the atmosphere. Certified Emission Reductions (CERs) are calculated following the version 03 of methodology AMS.II.G on the basis of the mass of non-renewable woody biomass saved by the ICSs.

The proposed CPA is a voluntary action undertaken by the Coordinating/Managing Entity (CME), Envirofit International (Envirofit), a company based in the United States of America, and carried out by ### (state company's/-ies' name/s), the Distributing Organisation (DO), a company based in ###.

The CPA will have a maximum energy saving of less than or equal to ## GWh_{th}/year, thus staying within the ### (enter micro-scale or small-scale) threshold. Based on the estimated energy savings, it is envisaged that about ##### (state estimated number of stoves to be distributed) stoves will be distributed under the CPA.

The proposed CPA will be developed and implemented by ### (the DO), which has signed a contractual agreement with Envirofit (the CME) to participate in the PoA.

Contribution of the proposed CPA to sustainable development (Add any relevant additional country specific information)

Environmental benefits:

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- *Greenhouse gas reductions:* The PoA will result in GHG reductions because it will reduce the consumption of non-renewable biomass in ### (state country in which the CPA takes place) where the biomass harvested for fuel use is typically non-renewable. For example, it has been shown that in some ### (state country in which the CPA takes place and briefly describe extent of non renewable biomass consumption issue).
- *Air quality:* Users (especially women and children) will be exposed to fewer air pollutants through reduced emission of not only CO₂, but also carbon monoxide (CO) and particulate matter. Air pollution from cooking with solid fuel is a key risk factor for childhood pneumonia as well as many other respiratory, cardiovascular and ocular diseases. According to the “Emissions and Performance Test Protocol”, with emissions measurements based on the stove testing protocol developed by Colorado State University the average CO emissions results of the ICS to be installed show a percentage improvement of ### (state range of emissions reduction for applicable stove types compared to the relevant stove in that country).
- *Biodiversity:* will be improved as the programme reduces pressure on remaining forest reserves. ### (Provide any further information on the link between solid fuel consumption and biodiversity impacts).

(Add any relevant additional country specific information about environmental benefits)

Social and Economic benefits:

- *Employment:* The programme will give rise to employment opportunities for ### (Add any relevant information regarding job creation in the host country)
- *Livelihood of the poor:* The circumstances of poor families will be improved since the project stoves reduce fuel cost, providing financial savings over the medium-long term. Reduction in wood consumption implies relief from drudgery and more opportunity for productive activity, education and family life arising from less time spent collecting fuel.
- *Access to energy services:* The ICS to be distributed require less fuel, which in many areas can be a scarce resource or very expensive to buy. The ICS are more convenient, due to shortening the required cooking time.
- *Human and institutional capacity:* The CPA will facilitate capacity development among the staff employed by ### and the many contractors that are to be engaged for distribution of ICS through the provision of trainings and workshops.

(Add any relevant additional country specific information about social and economic benefits)

A.3. Entity/individual responsible for the <u>small-scale CPA</u>:

The entity responsible for the proposed CPA is ### (state company's/-ies' name/s), based in ### (state city), ### (state country) (see Annex 1 for details). ### is the Distributing Organisation (DO). ### (state company's/-ies' name/s) ### (state is/is not) a registered project participant.

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Envirofit International (Envirofit) is the coordinating/managing entity (CME) of the PoA. Envirofit is a registered Project Participant and the Focal Point for the PoA.

A.4. Technical description of the small-scale CPA:

The CPA will be implemented using version 3.0 of the approved methodology *AMS. II.G - Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass*. This category comprises appliances involving efficiency improvements in the thermal applications of non-renewable biomass. This includes the introduction of the improved cooking stoves such as those produced by ### (state company's/-ies' name/s of ICS to be distributed in the CPA).

Below are pictures of ### (state company's/-ies' name/s and type of ICS to be distributed in the CPA) that are envisaged to be distributed in this CPA.

Figure #: ### (title of diagram)

(Provide a brief technical description of how the ICS to be distributed in the CPA reduces emissions, including greenhouse gas emissions, carbon monoxide emissions, and provide average thermal efficiencies etc)

Operational and management plan

Contractual obligations

The CME will coordinate the activities to be undertaken by the DO under this CPA. As part of the inclusion of the CPA under the PoA, an agreement will be signed by the DO - ### (state if only representing the DO itself or other contractors) - and the CME. The agreement will include, but is not limited to the following:

- (i) Commercial arrangements between the CME and the DO;
- (ii) ### (state ownership/transfer of the carbon emission reduction rights);
- (iii) Specific provisions and declarations that the CPA developer agrees that their activity is being integrated into the PoA;

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- (iv) Requirements that the CPA is implemented within the regulations and policy requirements of the host countries;
- (v) The DO's CDM-specific responsibilities and deliverables during the stove distribution to ensure accurate collection of information from customers; and
- (vi) Provisions outlining the consequences of non-compliance with the above requirements.

Training and guidance

Suitable training will be provided by the CME to ensure that the DO is fully aware of the rules of the PoA and the correct protocol to be followed during ICS distribution, data collection and ex-post monitoring activities.³ This includes provision of a *Distribution Manual* to guide the DO and any third parties sub-contracted by the DO. The DO will provide training of sub-contractors itself.

Distribution model

(Describe the distribution arrangements between the DO and the CME)

(Add additional relevant information on the distribution model to be implemented by the DO.)

(Provide an organisational diagram for the distribution model to be implemented by the DO.)

Figure #: ### (title of diagram)

Collection of data

The ### (state responsible person/people/institution etc.) will be trained by the DO to ensure correct procedures are fulfilled during the distribution. The DO is fully responsible to ensure the correct distribution process and data gathering, as is required of the DO by its agreement with the CME.

Figure 3 (Provide a diagram of the operational and management structure of the PoA/CPA) below provides a graphical overview of the operational and management structure described above, showing responsibilities for distribution, data collection and data verification.

(state responsible person/people/institution etc.) will be required to collect a range of information from each customer to ensure that the customer in question is not registered as part of another CDM project, that the customer is not double counted within the same CPA and to enable tracking of the stove during monitoring.

³ A third party maybe involved beside or instead of the DO in the ex-post monitoring. In this case the training would need to be provided to the third party. More information will be provided in the Monitoring Manual.

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At least the following information is to be recorded by the ### (state specific responsible party involved in collecting information - person/people/institution etc.) in each CPA Distribution Record at the time of distribution:

- CPA ID number;
- Name/Identification of end user that will be using the stove;
- Geographical location of stove;
- Stove unique serial ID number;
- Category of old stove which the ICS is replacing, i.e. the stove type – conventional or improved – and the fuel type – wood or charcoal;
- Stove distribution date.

(specify any further information to be collected – for example, phone number of the end-user, or other supporting information – for example, alternative means of locating stoves)

Enter a diagram of the operational and management structure of the PoA/CPA

Figure #: ### (title of diagram)

Add any additional relevant information on the data collection.

Transfer of carbon rights

At the time of sale, the ### (state responsible person/people/institution etc.) will obtain the customer's approval to assign his or her ### (describe how and to whom ownership of carbon rights will be transferred).

Add any additional relevant information.

Transfer of information to the CME

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The data contained in CPA Distribution Records will be compiled by the DO into a CPA Distribution Report. This Report will be provided to the CME ### (provide any further information on the format or reporting basis).

Add any additional relevant information.

Incentive structure

(state responsible person/people/institution etc.) are incentivized to fill out the CPA Distribution Records correctly. ### (describe how any intermediate person/people/institution etc responsible for ICS distribution will help ensure completeness, accuracy of information obtained from customers.). The DO is responsible for checking the accuracy of the information provided by the ### (state responsible person/people/institution etc.) prior to compiling a CPA Distribution Report for the CME.

Add any additional relevant information.

CME responsibilities

The CME will keep a record of the serial numbers of the ICS units distributed by the DO under this CPA and all other CPAs under the PoA. This will enable cross-checking of the claims made by DOs. The CME is responsible for cross-checking the data contained in the CPA Distribution Reports provided by the DO in order to confirm authenticity. If erroneous CPA Distribution Records are identified (e.g. inconsistency between sales claimed by DO and stove serial numbers supplied to the DO) these will not be included in the emissions reduction calculations. Double counting of emissions reductions will be avoided because each CPA and each ICS distributed will have a unique identification number. The CME will maintain the information required for emissions reduction calculations and verification in a secure electronic database, the “PoA Distribution and Monitoring Database”.

Archiving

The DO will send the original CPA Distribution Records or scanned copies of the paper originals to the CME as requested by the CME. The CME will ensure that all CPA Distribution Records (either original or scanned copy of original) are archived securely to enable verification by the DOE at a later point in time. Archives will be maintained for ### (provide details of archiving). A copy of the PoA Distribution and Monitoring Database will be kept in an electronic format.

A.4.1. Identification of the small-scale CPA:

Improved Cooking Stoves Programme of Activities in Africa - CPA No. ##### (state specific identification number of CPA) (### state country in which the CPA takes place)

A.4.1.1. Host Party:

Enter name of host country

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A.4.1.2. Geographic reference or other means of identification allowing the unique identification of the small-scale CPA (maximum one page):

The boundary of the proposed CPA is determined by the location of the individual households where the ICSs are distributed and is limited to the territorial area of the host country, ### *Enter name of host country*

Enter a map of the host country

Figure #: ### *(title of diagram)*

The identification of each ICS distributed is possible through the unique serial number attached to each stove, which will be uniquely assigned to an end user within the CPA. This information will be stored securely by the CME in the PoA Distribution and Monitoring Database and will be available at DOE at during verification.

A.4.2. Duration of the small-scale CPA:

A.4.2.1. Starting date of the small-scale CPA:

##/##/20## *(expected starting date of the CPA; date of first ICS distributed)*

A.4.2.2. Expected operational lifetime of the small-scale CPA:

years.

A.4.3. Choice of the crediting period and related information:

(specify crediting period – renewable 3 times 7 years or single 10 years)

A.4.3.1. Starting date of the crediting period:

##/##/20##

The expected crediting period starting date is the date of inclusion of the CPA in the PoA or the date when the first ICS unit has been distributed, whichever is the latter.

A.4.3.2. Length of the crediting period, first crediting period if the choice is renewable CP:

(specify crediting period – renewable 3 times 7 years or single 10 years)

A.4.4. Estimated amount of emission reductions over the chosen crediting period:

Years	Annual estimation of emission reductions (in tonnes of CO ₂ e)
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Year #	###
Year #	###
Year #	###
Year #	###
Year #	###
Year #	###
Year #	###
Total estimated reductions (tonnes of CO₂e)	###
Total number of crediting years	#
Annual average over the crediting period of estimated reductions (tonnes of CO₂e)	###

See provided Annex ### (*Provide corresponding Annex*) for emission reduction calculation for more detailed information on the underlying assumptions and the estimated number of stoves to be distributed in the CPA.

A.4.5. Public funding of the CPA:

(*state if any public funding was provided for the implementation of the CPA – yes/no – and details if yes*)

A.4.6. Information to confirm that the proposed small-scale CPA is not a de-bundled component

In accordance with paragraph 9 of Annex 32 to the EB47 Report, "Guidance for determining the occurrence of de-bundling under a Programme of Activities (PoA)," if each independent subsystem/measures included in the CPA of a PoA is no greater than 1% of the small scale threshold defined by the methodology applied, then that CPA of the PoA is exempted from performing the de-bundling check, i.e. considered as being not a de-bundled component of a large scale activity.

The small scale threshold, as defined by AMS II. G v3.0, is a maximum energy saving of 180 GWh_{th}/year. Hence, 1% of the threshold is 1.8 GWh_{th}/year. The estimated energy savings contributed by each ICS is only around ## MWh_{th}/year, which is around 0.##% of 180GWh_{th}/year (see emissions calculation spread sheet). Therefore, the CPA is exempted from the de-bundling check since the savings from the individual units by far do not exceed 1% of the SSC threshold.

A.4.7. Confirmation that small-scale CPA is neither registered as an individual CDM project activity or is part of another Registered PoA:

The CPA is neither registered as an individual CDM project activity nor is it part of another registered PoA. All ICS units distributed under this CPA are uniquely identifiable by a serial number and can be located on the basis of the information that will be collected and maintained by the CME.

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SECTION B. Eligibility of small-scale CPA and Estimation of emissions reductions

B.1. Title and reference of the Registered PoA to which small-scale CPA is added:

Improved Cooking Stoves Programme of Activities in Africa

B.2. Justification of the why the small-scale CPA is eligible to be included in the Registered PoA:

The CPA meets all the eligibility criteria for inclusion as outlined in Section A.4.2.2. of the PoA-DD. This is demonstrated below:

No.	Eligibility criteria		Means of proof	Confirmation
	Description	Conditions to be met		
1	Technology requirements	The ICS uses one of the following fuel types: <ul style="list-style-type: none"> • Wood fuel • Charcoal 	Technical specification of ICS provided	Yes/No <i>Add specific information and/or references</i>
2		The ICS has a minimum efficiency of 20% (AMS II.G, Version 3, para 1)	Technical specification of ICS provided	Yes/No <i>Add specific information and/or references</i>
3	Non-renewable biomass in use since Dec 1989	The first CPA in each country will demonstrate that non-renewable biomass has been in use since December 1989.	At least two of the factors listed in paragraph 10 of methodology AMSII.G. V 03 are shown to exist in the country	Yes/No <i>Add specific information and/or references</i>
4	Boundary and location of the CPA	The CPA is located within the boundary of one of the countries within the PoA boundary.	Location and boundary is specified in the specific CPA-DD.	Yes/No (CPA is limited to ### (enter host country name), a country being within the PoA boundary, ### (indicate where host country name can be found in the

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				PoA documentation))
5	Start date	The CPA start date shall be after the PoA validation start date.	The start date of the CPA will be specified in each CPA-DD.	Yes/No (CPA start date is ##/##/20##)
6	Additionality of CPAs	<p>The CPA shall satisfy one of the two additionality tests below (test 1 is for micro-scale CPAs and test 2 is for small-scale CPAs):</p> <p>1. If the CPA size is below 60 GWh_{th}/year: (a) The geographic location of the project activity is a LDC/SID or special underdeveloped zone of the host country as identified by the Government before 28 May 2010; or (b) The project activity is an emission reduction activity with both conditions (i) and (ii) satisfied; (i) Each of the independent subsystems/measures in the project activity achieves an estimated annual emission reduction equal to or less than 1.8 GWh_{th}/year; and (ii) End users of the subsystems or measures are households/communities/SMEs.</p> <p>2. If the CPA size is between 60 and 180 GWh_{th}/year, then it can be demonstrated that at least one of the barriers discussed in Section A.4.3. also applies to the CPA as required by the additionality approach outlined in Section E.5.2. Once this has been demonstrated for the first CPA in each country, further CPAs in that country can use this proof as a reference when demonstrating additionality.</p>	<p>In the case of test 1: energy savings from the individual sub-systems and the overall CPA are estimated using an Excel sheet or similar tool; the location of the CPA is defined in the CPA-DD; the end user groups are defined in the CPA-DD.</p> <p>In the case of test 2: For the first CPA in each country it shall be demonstrated that at least two of the criteria in section E.5.2. are met. (This shows that barriers outlined in Section A.4.3 apply)</p>	<p>Yes/No</p> <p><i>Specify which test is applied – test 1 or test 2 – and how the additionality requirements have been met</i></p>

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7	SSC Limit for CPAs	<p>The annual energy savings of each CPA shall not go beyond the limits of 180 GWh_{th}/year over the entire crediting period.</p> <p>In the case of using option 1 to prove additionality under Eligibility Criteria 6, the limit shall be 60 GWh_{th}/year over the entire crediting period.</p>	The maximum number of ICS will be determined in each CPA-DD depending on the technology used. If a CPA exceeds the applicable limit, the claimable emission reduction shall be capped at the stated limit.	<p>Yes/No</p> <p><i>(state which threshold applies – 180 GWh_{th}/year for small scale or 60 GWh_{th}/year for microscale and refer to document where it is demonstrated that the threshold is not exceeded)</i></p>
8	Exempted from de-bundling	Each ICS reduces energy consumption by less than 1.8 GWh _{th} /year ⁴ .	Specific energy savings for the applied ICS estimated using Excel sheet or similar tool.	<p>Yes/No</p> <p><i>Add specific information and/or refer to document where it is demonstrated that the threshold is not exceeded</i></p>
9	Contractual agreement	<p>The DO has signed a contractual agreement with the CME to participate in the PoA. This agreement:</p> <ul style="list-style-type: none"> • defines the ownership of the carbon emission reduction rights • covers the DO's distribution and monitoring related responsibilities 	Contractual agreement in place between the DO and the CME including the CDM-specific responsibilities of the DO (e.g. in an Annex to the contract)	<p>Yes/No</p> <p><i>Add specific information and/or refer to document where the CDM related responsibilities are defined</i></p>
10	Sampling	Sampling to be undertaken as part of the CPA is to be done in line with the requirements of the applied methodology AMS II G V3.0, and the latest applicable guidelines/standards	As specified in the sampling plan in the CPA-DD and/or according to the sampling	<p>Yes/No</p> <p><i>Add specific information and/or references to</i></p>

⁴ According to the “Guidelines on assessment of debundling for SSC project activities, v03 (EB 54, Annex 13, par. 10) for determining the occurrence of debundling under a Programme of Activities (PoA)”, if each of the independent subsystem/measures included in the CPA of a PoA is not larger than 1% of the small scale threshold defined by the methodology applied, then that CPA of the PoA is exempted from performing de-bundling check, i.e. considered as being not a de-bundled component of a large scale activity.

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		for sampling and surveys.	requirements specified at PoA level	<i>document or section which defines sampling</i>
11	Official Development Assistance (ODA)	The CPA is either: a) not receiving any funding from Annex I parties or b) the Annex I party funds do not result in a diversion of ODA	a) Confirmation by DO/CME b) Affirmation by funding party	Yes/No <i>Provide statement to a) or b) as applicable</i>

B.3. Assessment and demonstration of additionality of the small-scale CPA , as per eligibility criteria listed in the Registered PoA:

A CPA which is to be included under the registered PoA is considered to be additional, provided that:

1. The CPA meets the eligibility criteria for inclusion of a CPA in the PoA as set in section A.4.2.2.

*Confirm, that the CPA-DD in section B.2. proves that the CPA meets all eligibility criteria of the PoA.*

2. The CPA is consistent with the current mandatory laws and regulations in the Host Country at the time of inclusion.

*Confirm, that CPA is consistent with the current mandatory laws and regulations in the Host Country at the time of inclusion.*

In case of small-Scale CPA: *(Please confirm if relevant for the CPA, then provide details of the criteria which are being applied below where indicated)*

For small-scale CPAs, in the case of the first CPA to be included in a new country that is added to the PoA post-registration, at least two of the following criteria must also be satisfied:

- a. The country is classified as an LDC;

Enter information/references if applicable

- b. Lack of access to capital without carbon finance - as demonstrated by a letter from a major investor or lender or other appropriate documentation;

Enter information/references if applicable

- c. At least one of the barriers in Section A.4.3. can be demonstrated to also apply in that country. For example, this could be done by providing a reference document from a credible source, no older than seven years, that supports the demonstration of the barrier.

Enter information/references if applicable

All subsequent CPAs in that same country can reference the demonstration of additionality in the first CPA.

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In case of micro-scale-CPA: *(Please confirm if relevant for the CPA, then provide details of the criteria which are being applied below where indicated)*

The CPA is considered additional if it satisfies the micro-scale additionality requirements according to the latest guidelines:

A CPA that is limited to energy savings of no more than 60GWh of thermal energy savings per year is additional if:

- a. The geographic location of the project activity is a LDC/SID or special underdeveloped zone of the host country as identified by the Government before 28 May 2010; or

Enter information/references if appropriate

- b. The project activity is an emission reduction activity with both conditions (i) and (ii) satisfied;

- i. Each of the independent subsystems/measures in the project activity achieves an estimated annual emission reduction equal to or less than 1.8 GWh_{th}/year; and

Enter information/references if appropriate

- ii. End users of the subsystems or measures are households/communities/SMEs

Enter information/references if appropriate

Therefore the additionality of the CPA has been demonstrated.

B.4. Description of the sources and gases included in the project boundary and proof that the small-scale CPA is located within the geographical boundary of the registered PoA.

The project boundary is the geographical area where the ICS are distributed and in use and this is restricted to the geographical boundary of **###** *(enter host country name)*, which is located within the geographical boundary of the PoA as defined in **###** *(indicate where host country name can be found in the PoA-DD documentation)*. The table below illustrates the GHG emissions sources included:

Source		Gas	Included?	Justification / Explanation
Baseline	Combustion of non renewable biomass for cooking	CO ₂	Yes/No	### <i>(state justification for inclusion/ non-inclusion)</i>
		CH ₄	Yes/No	### <i>(state justification for inclusion/ non-inclusion)</i>
		N ₂ O	Yes/No	### <i>(state justification for inclusion/ non-inclusion)</i>
Project activity	Combustion of non renewable biomass for cooking	CO ₂	Yes/No	### <i>(state justification for inclusion/ non-inclusion)</i>
		CH ₄	Yes/No	### <i>(state justification for inclusion/ non-inclusion)</i>
		N ₂ O	Yes/No	### <i>(state justification for inclusion/ non-inclusion)</i>

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B.5. Emission reductions:

B.5.1. Data and parameters that are available at validation:

Data / Parameter:	Q_{biomass}
Data unit:	Tonnes/year
Description:	Annual average biomass consumption per appliance
Source of data used:	### Add specific information and/or references
Value applied:	###
Justification of the choice of data or description of measurement methods and procedures actually applied :	### Add specific information and/or references
Any comment:	Used for calculation of B_{old} as per paragraph 7 (a) of methodology

Data / Parameter:	$f_{\text{NRB}, y}$
Data Unit:	Fraction
Description:	Fraction of biomass saved by the project activity in year y that can be established as non-renewable biomass using national or local statistics, survey results, studies, maps or other sources of information, such as remote-sensing data
Source of data used:	### Add specific information and/or references on source of data
Value applied:	###

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Justification of the choice of data or description of measurement methods and procedures actually applied :	As per applied methodology AMS II.G, version 3, f_{NRB} is calculated by applying the following formula: $f_{NRB} = NRB / (NRB + DRB)$ NRB: Non-renewable woody biomass DRB: Demonstrably renewable woody biomass ### Add specific information and/or references on determination of values
Any comment:	-

Data / Parameter:	NCV _{biomass}
Data unit:	TJ/tonne
Description:	Net calorific value of the non-renewable biomass that is substituted
Source of data used:	AMS-II. G version 03, page 2
Value applied:	0.015
Justification of the choice of data or description of measurement methods and procedures actually applied :	Default value as prescribed by methodology applied
Any comment:	-

Data / Parameter:	EF _{projected_fossilfuel}
Data unit:	tCO ₂ /TJ
Description:	Emission factor for the substitution of non-renewable biomass by similar consumers
Source of data used:	AMS-II. G version 03, page 2
Value applied:	81.6
Justification of the choice of data or description of measurement methods and procedures actually applied :	Default value as prescribed by methodology applied
Any comment:	This value represents the emission factor of the substitution fuels likely to be used by similar users, on a weighted average basis. It is assumed that the mix of present and future fuels used would consist of a solid fossil fuel (lowest in the ladder of fuel choices), a liquid fossil fuel (represents a progression over solid fuel in the ladder of fuel use choices) and a gaseous fuel (represents a progression over liquid fuel in the ladder of fuel use choices). Thus a 50% weight is assigned to coal as the alternative solid fossil fuel (96 tCO ₂ /TJ) and a 25% weight is assigned to both liquid and gaseous fuels (71.5 tCO ₂ /TJ for Kerosene and 63.0 tCO ₂ /TJ for Liquefied Petroleum Gas (LPG)).

Data / Parameter:	η_{old}
Data unit:	Fraction
Description:	Efficiency of the system being replaced

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Source of data used:	AMS-II. G version 03
Value applied:	###
Justification of the choice of data or description of measurement methods and procedures actually applied :	### State how the default value/s taken from the methodology AMS-II.G version 03 are applied.
Any comment:	

Data / Parameter:	LAF
Data unit:	Fraction
Description:	Net to gross adjustment factor to account for leakages
Source of data used:	AMS-II. G version 03
Value applied:	0.95
Justification of the choice of data or description of measurement methods and procedures actually applied :	Default value as prescribed by methodology applied
Any comment:	-

B.5.2. Ex-ante calculation of emission reductions:

Application of the methodology:

1. Governing equation for emission reduction

The equation for calculation of emission reductions is:

$$ER_y = B_{y,savings} \cdot f_{NRB,y} \cdot NCV_{biomass} \cdot EF_{projected_fossilfuel}$$

Where:

ER_y Emission reductions during the year y in tCO₂e

$B_{y,savings}$ Quantity of biomass that is saved in tonnes

$f_{NRB,y}$ Fraction of biomass saved by the project activity in year y that can be established as non renewable biomass using survey methods or historical data if available

$NCV_{biomass}$ Net calorific value of the non-renewable biomass that is substituted (IPCC default for wood fuel, 0.015 TJ/tonne)

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$EF_{\text{projected_fossilfuel}}$ Emission factor for the substitution of non-renewable biomass by similar consumers. Use a value of 81.6tCO₂/TJ

$B_{y,\text{savings}}$ is estimated using option 2 of the methodology AMS-II.G version 3.

$$B_{y,\text{savings}} = B_{\text{old}} \cdot (1 - \eta_{\text{old}} / \eta_{\text{new}})$$

Following option (a) of the methodology, B_{old} is calculated as the product of the number of appliances multiplied by the estimate of average annual consumption of biomass per appliance (tonnes/year) derived from historical data/ survey of local usage:

$$B_{\text{old}} = N \cdot Q_{\text{biomass}}$$

Where,

B_{old} Quantity of woody biomass used in the absence of project activity (tonnes)

N Total number of systems (number)

Q_{biomass} Average annual biomass consumption per appliance (tonnes/ year)

$$N = N_{\text{all}} \cdot \text{SOF}$$

Where,

N_{all} Total number of stoves installed

SOF Stove Operation Fraction (% of stoves operating or replaced by equivalent in-service appliance) - measured ex post during sampling of households by observation and user interview

In compliance with the monitoring requirements of the methodology B_{old} is adjusted for Leakage and average stove operation period during monitoring period.

Thus,

$$B_{\text{old}} = \text{LAF} \cdot N_{\text{all}} \cdot \text{SOF} \cdot Q_{\text{biomass}} \cdot \text{Stove}_{\text{year}}$$

Where,

$\text{Stove}_{\text{year}}$ Calculated average stove operation years in the monitoring period (years)

LAF Net to gross Adjustment factor (0.95) applied in accordance with paragraph 13 and 23 of AMS-II. G version 03

Where:

$$f_{\text{NRB}} = \text{NRB} / \text{NRB} + \text{DRB}$$

Following the methodology (paragraph 10), Non-renewable woody biomass (NRB) is the quantity of woody biomass used in the absence of the project activity (Bold) minus the DRB component, as long as at least two of the following indicators are shown to exist:

- A trend showing an increase in time spent or distance travelled for gathering fuelwood, by users (or fuel-wood suppliers) or alternatively, a trend showing an increase in the distance the fuel-wood is transported to the project area;
- Survey results, national or local statistics, studies, maps or other sources of information, such as remote-sensing data, that show that carbon stocks are depleting in the project area;
- Increasing trends in fuel wood prices indicating a scarcity of fuel-wood;

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- Trends in the types of cooking fuel collected by users that indicate a scarcity of woody biomass.

Woody biomass is demonstrably renewable (DRB) if one of the following conditions is satisfied (paragraph 9 of the methodology):

I. The woody biomass is originating from land areas that are forests where:

- (a) The land area remains a forest; and
- (b) Sustainable management practices are undertaken on these land areas to ensure, in particular, that the level of carbon stocks on these land areas does not systematically decrease over time (carbon stocks may temporarily decrease due to harvesting); and
- (c) Any national or regional forestry and nature conservation regulations are complied with.

II. The biomass is woody biomass and originates from non-forest areas (e.g. croplands, grasslands) where:
The land area remains as non-forest or is reverted to forest; and

- (b) Sustainable management practices are undertaken on these land areas to ensure in particular that the level of carbon stocks on these land areas does not systematically decrease over time (carbon stocks may temporarily decrease due to harvesting); and
- (c) Any national or regional forestry, agriculture and nature conservation regulations are complied with.

This will be done at the CPA level for the first CPA in each country. In order to determine the f_{NRB} in a country, FAO will be used wherever possible, complemented with IPCC data if necessary. In cases such data does not exist, f_{NRB} can be established by using national or local statistics, survey results, studies, maps or other sources of information, such as remote-sensing data (refer to CPA-DD for further information).

B.5.3. Summary of the ex-ante estimation of emission reductions:

Year	Estimation of project activity emissions (tonnes CO ₂ e)	Estimation of baseline emissions (tonnes CO ₂ e)	Estimation of leakage (tonnes CO ₂ e)	Estimation of overall emission reductions (tonnes CO ₂ e)
Year #	###	###	###	###
Year #	###	###	###	###
Year #	###	###	###	###
Year #	###	###	###	###
Year #	###	###	###	###
Year #	###	###	###	###
Year #	###	###	###	###
Total (tonnes of CO ₂ e)	###	###	###	###

B.6.1. Description of the monitoring plan:

Data / Parameter:	η_{new}
Data unit:	Fraction
Description:	Efficiency of the system being deployed as part of the project activity

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Source of data to be used:	Determined using Water Boiling Test protocol
Value of data applied for the purpose of calculating expected emission reductions in section B.5	###%
Description of measurement methods and procedures to be applied:	### <i>Add specific information and/or references on how WBTs will be carried out in terms of the CPA or PoA level sampling plan</i>
QA/QC procedures to be applied:	The DO or a third party contractor (Monitoring Organisation) will conduct WBTs in line with the guidance provided by the CME and according to ### <i>(specify an appropriate standard or internationally recognised protocol for WBTs)</i>
Any comment:	### <i>Add specific information or reasons for choice of value</i> Each WBT conducted will be matched with a specific serial ID number of the stove tested. Hence, the stove type (i.e. fuel type and specific laboratory efficiency) can be clearly identified allowing an extrapolation of the sample to all stoves of the same type, distributed within the PoA.

Data / Parameter:	N _{all}
Data unit:	Number
Description:	Total number of stoves installed
Source of data to be used:	Record of all installations and date of each installation
Value of data applied for the purpose of calculating expected emission reductions in section B.5	### <i>Enter total number of stoves estimated to be distributed under the CPA</i>
Description of measurement methods and procedures to be applied:	Each DO shall maintain CPA Distribution Records which will provide the data used to calculate this parameter.
QA/QC procedures to be applied:	The CME will supervise the activities of each DO, and provide training, guidelines and distribution templates to facilitate accurate record keeping during the ICS distribution. The CME will also maintain a record of the stove serial numbers supplied to each DO, and will be able to cross-check these against the CPA Distribution Reports it receives back from the DO.
Any comment:	-

Data / Parameter:	SOF
Data unit:	Fraction
Description:	Stove Operation Fraction – used to determine only stoves that are still operating,

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	measured ex-post through survey/ user feedback
Source of data to be used:	Survey of household behavior
Value of data applied for the purpose of calculating expected emission reductions in section B.5	##
Description of measurement methods and procedures to be applied:	This is measured ex-post by investigation of the number of ICS installations within the sampled ICS which are operational. If for example 90% of the sample is only found to be operational, then SOF is 90%.
QA/QC procedures to be applied:	The CME will provide training, guidelines and monitoring templates to ensure that the DO or another contracted party responsible for monitoring follows appropriate procedures.
Any comment:	### provide explanation for choice of value

Data / Parameter:	μ_{old}
Data unit:	Tonnes/year
Description:	Amount of woody biomass for the continued use of old stoves
Source of data to be used:	Survey of household behavior
Value of data applied for the purpose of calculating expected emission reductions in section B.5	##
Description of measurement methods and procedures to be applied:	This is measured ex-post by household survey and according AMS II.G v03. The survey will be done on the basis of the end user's estimation of the amount of wood or charcoal used per day, the number of times per week/month/year.
QA/QC procedures to be applied:	The CME will provide training, guidelines and monitoring templates to ensure that the DO or another contracted party responsible for monitoring follows appropriate procedures for the survey.
Any comment:	### provide explanation for choice of value

As outlined in Section A.4, the CME will enter into a contract with the DO and this contract will include inter alia CDM-specific requirements relating to monitoring activities that occur during the distribution of stoves including the collecting of the necessary data required for ex-post monitoring, and ensuring that the CPA Distribution Records are completed correctly. The information contained in the CPA Distribution Records and hence the CPA Distribution Reports and the PoA Distribution and Monitoring Database enables the tracking of stoves back to the household level. The CME will manage the PoA Distribution and Monitoring Database, from which a representative sample will be drawn for the purposes of monitoring of parameters after the distribution of ICS has taken place (ex-post monitoring).

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The CME will oversee ex-post monitoring activities by providing guidance and training to ### (state the parties involved in ex-post monitoring - company's/-ies' name/s, type of organisation etc) – the “Monitoring Organisation”. This will ensure that the correct procedures are carried out during monitoring activities.

The ### (state persons carrying out such activities) (Monitoring Agents) will be provided with instructions and resources (*Monitoring Manual, monitoring templates*) to ensure procedures are correctly followed. The DO is required to allow the CME reasonable access to information required in the implementation of the PoA Monitoring Plan and shall make available staff and contractors for consultations or as otherwise required by the CME to carry out the PoA Monitoring Plan.

During ex-post monitoring, the Monitoring Agents will perform the following checks:

Check (parameter)	Method envisaged	Timing envisaged
Efficiency of project stoves (η_{new})	Carrying out Water Boiling Tests (WBTs)	### Annually/Bi-annually
Check if project stoves are operational and in use (SOF)	Observation and interview with end user, asking them if project stoves are still operational and being used.	### Annually/Bi-annually
Check if there is any on-going use of replaced stoves	Observation and interview with end user, asking them if they continue to use the stove that was intended to be replaced, or if they acquired another similar stove after purchasing the ICS.	### Annually/Bi-annually
If replaced stoves are being used, then estimate the continued use of the replaced stove (μ_{old})	Interview with end user, asking them to estimate the amount of ### (state fuel type/s – wood, charcoal or both) used per day in the old stove, the number of days per week the old stove is used, and then converting this into a kg amount (e.g. by weighing using scales).	### Annually/Bi-annually (if required)

The results of the checks will be recorded by the Monitoring Agents in the CPA Monitoring Record (a paper-based document) using the templates provided by the CME. The various CPA Monitoring Records shall then be compiled into a CPA Monitoring Report by the Monitoring Organisation. This Report will be transferred to the CME in a soft copy format when the current round of ex-post monitoring activities has been completed. Either the originals of the CPA Monitoring Records or scanned copies of each Record will also be provided to the CME to enable cross-checking – as requested by the CME.

The CME will cross-check the ex-post monitoring information received from the Monitoring Organisation. The data obtained from the ex-post monitoring activities will be kept in the secure PoA Distribution and Monitoring Database, along with the data obtained during distribution, and will be used for calculating the parameters outlined above, which will feed into emissions reduction calculations and made available to the DOE during verification. In line with the methodology, if biomass fuel is found to be consumed in replaced stoves, this amount (μ_{old}) will be excluded from B_{old} and considered when calculating $B_{\text{y,savings}}$.

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Figure 5 below provides a graphical illustration of the ex-post monitoring activities to be carried out in the Monitoring plan.

Provide a diagram of monitoring plan

Figure #: ### (title of diagram)

Sampling Plan

provide description of sampling approach

C.1. Please indicate the level at which environmental analysis as per requirements of the CDM modalities and procedures is undertaken. Justify the choice of level at which the environmental analysis is undertaken:

X Please tick if this information is provided at the PoA level. In this case sections C.2. and C.3. need not be completed in this form.

C.2. Documentation on the analysis of the environmental impacts, including transboundary impacts:

Not applicable

C.3. Please state whether an environmental impact assessment is required for a typical CPA, included in the programme of activities (PoA), in accordance with the host Party laws/regulations:

Not applicable

SECTION D. Stakeholders' comments

D.1. Please indicate the level at which local stakeholder comments are invited. Justify the choice:

X Please tick if this information is provided at the PoA level. In this case sections D.2. to D.4. need not be completed in this form.

D.2. Brief description how comments by local stakeholders have been invited and compiled:

Not applicable

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D.3. Summary of the comments received:

Not applicable

D.4. Report on how due account was taken of any comments received:

Not applicable

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Annex 1

CONTACT INFORMATION ON ENTITY/INDIVIDUAL RESPONSIBLE FOR THE SMALL-SCALE CPA

(provide applicable information below where indicated)

Organization:	###
Street/P.O.Box:	###
Building:	###
City:	###
State/Region:	###
Postfix/ZIP:	###
Country:	###
Telephone:	###
FAX:	###
E-Mail:	###
URL:	###
Represented by:	###
Title:	###
Salutation:	###
Last Name:	###
Middle Name:	###
First Name:	###
Department:	###
Mobile:	###
Direct FAX:	###
Direct tel:	###
Personal E-Mail:	###

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Annex 2

INFORMATION REGARDING PUBLIC FUNDING

Add specific information if applicable.

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Annex 3

BASELINE INFORMATION

Add specific baseline information and references

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Annex 4

MONITORING INFORMATION

The monitoring plan is detailed above.

Add specific information and references, if appropriate

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