



CDM: Recommendation Form for Small Scale Methodologies (version 01)
(To be used for presenting questions/proposals/amendments to the simplified methodologies for small-scale CDM project activity categories)

Date of SSC WG meeting:	11–14 October 2011, SSC WG 34
Title/Subject (give a small title or specify the subject of your submission, maximum 200 characters):	Clarification on the use of monitoring requirements from AMS-I.I for biogas projects using AMS-I.C
Indicative methodology to which your submission relates (refer the items of Appendix B of the Simplified Modalities and Procedures), if applicable.	AMS-I.C “Thermal energy production with or without electricity”
Name of the authors of the query:	Julia Elmgren Institution: Gazprom Marketing & Trading Limited julia.elmgren@gazprom-mt.com

Summary of the query:

Please use the space below to summarize the query related to SSC methodologies/categories SSC Modalities and Procedures provide recommendation/analysis of the SSC WG.

Original text from PP

Background:

The project participant is currently working on the development of a sustainable Programme of Activities (PoA) that entails the construction of household biogas digester units and replacement of coal-based and/or LPG-based cooking stoves with biogas-based cooking stoves in rural areas in China. The project started validation in December 2009 using the then only applicable small-scale (SSC) methodology *AMS-I.C.: Thermal energy production with or without electricity*.

Given that *AMS-I.C* is not explicit enough in terms of monitoring for biogas thermal applications for households, the SSC Working Group (WG) and Executive Board (EB) of the CDM approved a SSC methodology that contains specific monitoring procedures for this type of project activity (*AMS-I.I.: Biogas/biomass thermal applications for households/small users*). However, due to the execution timeline of the PoA, the project participant is unable to switch methodologies unless certainty is obtained that switching methodologies will not affect the validation start-date of the PoA (see separate clarification request submitted along with this form).

Query:

Considering that AMS-I.C does not indicate an explicit monitoring procedure that is suitable for biogas applications at the household level and, that AMS-I.I contains such specific procedures, the project participant would like to get confirmation from the SSC WG on the possibility of adopting the monitoring procedure included in AMS-I.I for the household PoA currently under validation using AMS-I.C Version 18.0.

The technical argumentation of the request is detailed below.

According to paragraph 39 of *AMS-I.C.: Thermal energy production with or without electricity - -- Version 18.0*, “For household or commercial applications/systems, whose maximum output capacity is less than 45 kW thermal and where it can be demonstrated that the metering of thermal energy output is not plausible, as in the case of biomass stoves, gasifiers, driers, water heaters, etc., the

project output energy shall be estimated based on consumption of the biomass (in terms of energy quantity) times the efficiency of the project equipment."

Even though AMS-I.C Ver 18.0 does not include a similar statement for biogas project activities, we take that the above statement is equally applicable for biogas applications. Consequently, we also assume that equation (9) is applicable for household biogas projects for the determination of baseline emissions in a given year:

$$BE_y = \{ [B_{biogas,PJ,y} * NCV_{biogas} * \eta_{PJ}] / \eta_{BL} \} * EF_{FF,CO2} \quad Eq. (9)$$

Where $B_{biogas,PJ,y}$ refers to net quantity of the biogas consumed in year y (tons).

Given that **AMS-I.C** does not include a specific procedure for household applications for monitoring the quantity of biogas consumed in year y ($B_{biogas,PJ,y}$), and that continuous monitoring of this parameter would be highly uneconomic, the sample-based monitoring procedure as outlined in **AMS-I.I.: Biogas/biomass thermal applications for households/small users --- Version 2.0**, would be more suitable to the project situation;

According to Table 1, page 8 of AMS-I.I, "*the net quantity of biogas consumed by the thermal application k in year y*" is determined using "gas meters that monitor the accumulated biogas supplied to thermal energy equipment". "*Measurement campaigns shall be undertaken at selected sites. At least five campaigns per digester type (e.g. 6 cubic metre or 8 cubic metre capacity, fixed dome or floating dome, region with high average ambient temperature or low average annual temperature) shall be carried out in each year of the crediting period. Continuous measurement made for at least one month at a single digester is considered as a campaign*". "*Monthly average value is annualised taking into account seasonal variation in gas production which is mainly a function of ambient temperature*".

Recommendation by the SSC WG:

Please use the space below to provide amendments/change (in your expert view, if necessary).

Please refer to paragraph 30 of the meeting report of the SSC WG 34
<http://cdm.unfccc.int/Panels/ssc_wg>.

Answer to authors of query by the SSC WG:

Please use the space below to provide answer to the authors of the above query.

The Small-Scale Working Group of the CDM Executive Board would like to thank the author for their submission.

The SSC WG agreed that the project participants should be encouraged to apply AMS-I.I for their PoA involving household biogas projects, since this methodology has been specifically designed for this type of project activity and provides more detailed and relevant procedures than AMS-I.C version 18.

The SSC WG also agreed that if the project participants decide not to switch methodologies (i.e. to continue using AMS-I.C), they may use the monitoring procedures provided in AMS-I.I, for the project biogas units, as long as the applicability conditions of AMS-I.I are met and validated, including the condition that "*each unit (e.g. cook stove, heater) shall have a rated capacity equal to or less than 150 kW thermal*".

The SSC WG also notes the concern raised by the author regarding the impact of switching methodologies on the start date of the PoA. The SSC WG agrees that according to procedures (see http://cdm.unfccc.int/Reference/Procedures/methSSC_proc01_v01.pdf), this query is deemed not to be within the scope of the SSC WG.

Signed by the Chair, Ms. Fatou Gaye

Date: 14/10/2011

Signed by the Vice-Chair, Mr. Peer Stiansen

Date: 14/10/2011

Information to be completed by the secretariat

SSC-Submission number	SSC_571
Date when the form was received at UNFCCC secretariat	14 October 2011
Date of transmission to the EB	14 October 2011
Date of posting in the UNFCCC CDM web site	14 October 2011