



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)

<i>Date of SSC WG meeting:</i>	As per procedures for fast track clarifications
<i>Title/Subject (give a small title or specify the subject of your submission, maximum 200 characters):</i>	Clarification on the threshold of thermal energy savings in AMS-II.G
<i>Indicative methodology to which your submission relates (refer the items of Appendix B of the Simplified Modalities and Procedures), if applicable.</i>	AMS-II.G
<i>Name of the authors of the query:</i>	Florian Zerzawy Institution: Atmosfair gGmbH zerzawy@atmosfair.de

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.

According to Decision 1/CMP.2, *Further guidance relating to the clean development mechanism*, „Type II project activities or those relating to improvements in energy efficiency which reduce energy consumption, on the supply and/or demand side, shall be limited to those with a maximum output of 60 GWh per year (or an appropriate equivalent)“. In most of the approved AMS-II methodologies, the 60 GWh threshold refers to electrical energy savings, whereas the appropriate equivalent for thermal energy savings is 180 GWh per year (see AMS-II.A, AMS-II.B, AMS-II.C, AMS-II.D, AMS-II.H, AMS-II.I). This corresponds to limitations in Type I project activities (15 MW_{el} vs 45 MW_{th}).

Maximum emission reductions achievable in Type I/Type II projects with a 15 MW_{el}/60 GWh_{el} limit are between 48.000 (Type II) and 63.000 (Type I) t of CO₂eq (assume an Emission Factor of 0,8 t of CO₂/MWh, and a PLF of 60%). This also corresponds to the limit set for Type III project activities (60kt CO₂eq).

AMS-II.G refers to project activities reducing emissions through thermal energy savings, but does not specify that the thermal threshold is 180 GWh per year.

If project activities under AMS-II.G were limited to 60 GWh_{th}, the emission reductions under one single project activity would be much lower than under typical Type I and Type II project activities.

Calculation Example:

$ER_y = B_{\text{savings}} \cdot f_{\text{NRB}, y} \cdot NCV_{\text{biomass}} \cdot EF_{\text{projected fossil fuel}}$

Biomass savings per appliance = 4 t/yr

NCV biomass = 0,015 TJ/t (= 4,167 MWh/t)

Energy savings per appliance = 16,667 MWh

Maximum number of appliances = $60.000 \text{ MWh} / 16,667 \text{ MWh} = 3.600$

Emission Reductions (assume $f_{NRB} = 1$ and $EF_{\text{projected fossil fuel}} = 71,5 \text{ t CO}_2/\text{TJ}$, for Kerosene) = $3.600 \times 4 \text{ t/yr} \times$

$1 \times 0,015 \text{ TJ/t} \times 71,5 \text{ t CO}_2/\text{TJ} = 15.444 \text{ t CO}_2/\text{yr}$

Therefore, the project participant seeks clarification on the applicability of AMS-II.G to project activities with maximum thermal energy savings of 180 GWh per year.

Recommendation by the SSC WG:

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

This recommendation is as per the procedures for fast track clarifications as specified in paragraph 8 of the 'procedures for the submission and consideration of request for clarification of approved small-scale methodologies' found at http://cdm.unfccc.int/Reference/Procedures/MethSSC_proc01_EB34a06.pdf.

Answer to authors of query by the SSC WG:

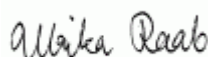
Please use the space below to provide answer to the authors of the above query

The small-scale working group of the CDM Executive Board would like to thank the author for the submission.

Indeed, according to Decision 1/CMP.2 'Further Guidance Relating to the Clean Development Mechanism', "Type II project activities or those relating to improvements in energy efficiency which reduce energy consumption, on the supply and/or demand side, shall be limited to those with a maximum output of 60 GWh per year (or an appropriate equivalent)".

Kindly refer to the Modalities and Procedures of SSC CDM where it is stated "Definition of "appropriate equivalent" of 15 megawatts: the Board agreed that, whereas decision 17/CP.7, paragraph 6 (c) (i), refers to megawatts (MW), project proposals may refer to MW(p), MW(e) or MW(th). As MW(e) is the most common denomination, and MW(th) only refers to the production of heat which can also be derived from MW(e), the Board agreed to define MW as MW(e) and otherwise to apply an appropriate conversion factor".

The SSC WG agreed to clarify therefore AMS-II.G is applicable to project activities with maximum thermal energy savings of 180 GWh per year.



Signature of SSC WG Chair

(Ulrika Raab)

Date: 04/11/2008



Signature of SSC WG Vice-Chair

(Kamel Djemouai)

Date: 04/11/2008

Information to be completed by the secretariat	
SSC-Submission number	SSC_233
Date when the form was received at UNFCCC secretariat	04 November 2008
Date of transmission to the EB	04 November 2008
Date of posting in the UNFCCC CDM web site	04 November 2008