



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>	30 June–2 July 2008, SSC WG 16
<i>Title/Subject (give a small title or specify the subject of your submission, maximum 200 characters):</i>	Request for revision to include wastewater as a source of the organic matter treated after this methodology
<i>Indicative methodology to which your submission relates (refer the items of Appendix B of the Simplified Modalities and Procedures), if applicable.</i>	Revision to AMS III.E, version 15.1
<i>Name of the authors of the query:</i>	Dr. Wolfram Müller Institution: RWE Power AG wolfram.mueller@rwe.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.

A revision of AMS III.E ‘Avoidance of methane production from decay of biomass through controlled combustion, gasification or mechanical/thermal treatment’ version 15.1 to expand the applicability of the methodology to include treatment of solids separated from wastewater is requested.

The solid fraction from wastewater (e.g. from a palm oil mill) will be mechanically separated (e.g. via a centrifuge). The separated solids will be burned directly or be torrefacted to be used as stabilized fuel. The effluent will be fed back to the existing wastewater treatment facility where it will produce significantly less methane, due to the lower carbon loading. For the calculation of baseline and project emissions from the wastewater component the procedures in AMS III.H are referred.

Recommendation by the SSC WG:

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

Please refer to paragraph 16 of the meeting report of the SSC WG 16
(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 the submission.

The SSC WG noted that in the proposed revision to AMS III.E the wastewater treatment technology for the wastewater remains the same in the baseline and the project situation i.e. no methane capture or other measures are undertaken, unlike the measures mentioned in AMS III.H. Further, baseline and project emissions from the wastewater component before and after separation of solids are calculated as per the provisions of AMS III.H. In the proposed revision to AMS III.E it is stated, “If the project activity includes separation/extraction of wastewater, the baseline for this component is the existing wastewater treatment system. Baseline emissions are calculated for the amount of wastewater entering the separation

process.” Implicitly it is assumed solids separation process is equivalent to one of the wastewater treatment measures mentioned under AMS III.H to reduce the COD content of the wastewater.

The SSC WG agreed not to recommend the proposed revision to AMS III.E, as the proposed procedures to determine emission reductions are not appropriate. It may be assumed, that mechanical separation removes mainly carbon that is not easily degradable. The more easily degradable and soluble fractions would leave the separation system in the liquid fraction and would give rise to methane emissions, while the separated solids would mainly comprise of the insoluble fraction. After the separation of solids, the IPCC procedure (e.g. values provided for MCF and Bo – maximum methane producing capacity (kg CH₄/kg COD)) for estimating the potential methane emissions from the remaining effluent may no longer be applicable. The COD measures the total material available for chemical oxidation (both biodegradable and non-biodegradable). Further, the proposed revision does not include a way of monitoring the characteristics of the separated solids, e.g. its content on volatile solids.

The SSC WG agreed that a new methodology may be proposed to cover mechanical solids separation technologies from wastewater addressing the above issues. In drafting the new methodology project proponents may wish to take into account the responses provided by the SSC WG on a proposed methodology for solid separation technologies applicable to manure (SSC-NM004 and SSC_109, specific attention shall be given to the “Draft methodology for comments from PP sent on 10 Sep 2007” which can be found in the left column of SSC_109).



Signature of SSC WG Chair

(Ulrika Raab)

Date: 02/07/2008



Signature of SSC WG Vice-Chair

(Kamel Djemouai)

Date: 02/07/2008

Information to be completed by the secretariat

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