



## 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>	01–03 September 2008, SSC WG 17
<i>Title/Subject (give a small title or specify the subject of your submission, maximum 200 characters):</i>	Inquiries about procedures and consistency in the methodology
<i>Indicative methodology to which your submission relates (refer the items of Appendix B of the Simplified Modalities and Procedures), if applicable.</i>	AMS-III.H version 9
<i>Name of the authors of the query:</i>	Courtney Blodgett Institution: EcoSecurities Plc. Courtney@ecosecurities.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.

Project participants request clarification on how emission reductions shall be calculated during the crediting period under AMS-III.H version 9. Further, clarifications are requested concerning various topics, including the calculation of project emissions from inefficiencies in the capture of biogas, and flaring efficiency of open flares and the methane content of biogas bottled.

### **Recommendation by the SSC WG:**

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

Please refer to paragraph 35 of the meeting report of the SSC WG 17 ([http://cdm.unfccc.int/Panels/ssc\\_wg](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 agreed to clarify that under AMS-III.H version 9 the following applies:

1) For the scenarios 1 (ii) introduction of anaerobic sludge treatment with methane recovery and combustion to untreated sludge; 1 (iii) and 1 (iv) introduction of methane recovery and combustion unit to an existing anaerobic wastewater or sludge treatment system, and 1 (vi) introduction of a sequential stage of wastewater treatment with methane recovery and combustion to an existing wastewater treatment, emission reductions (ex-post) shall be based on the amount of methane recovered and destroyed ( $MD_y$ ) that is monitored ex-post. Project emissions and leakage shall be deducted ( $ER_y = MD_y - PE_y - LE_y$ ).

The *ex ante* estimation of emission reductions shall be based on baseline emissions minus project and leakage emissions ( $ER_y = BE_y - PE_y - LE_y$ ) calculated as per the formulas provided in the methodology.

The SSC WG recommended a revision to AMS-III.H at this meeting, clarifying how emission reductions are to be calculated *ex ante* and *ex post* for the various scenarios in the methodology. These recommended revisions include the requirement that emission reductions shall be the lowest of 1) the amount of biogas recovered and fuelled or flared (MDy) during the crediting period, that is monitored *ex post* and 2) *ex post* calculated baseline, project and leakage emissions based on actual monitored data for the project activity.

Emissions from degradable organic carbon in treated wastewater discharged in river/sea/lake shall be calculated as per formula 2 in AMS-III.H version 9 for both baseline and project situation. The methodology indicates for which scenarios and for which situation (baseline or project) these emissions shall be considered. Under AMS-III.H version 9 MCF higher values are to be used for the project situation and MCF lower values for the baseline situation. Please note, at this meeting a revision to AMS-III.H was recommended with a different approach.

2) Project activity emissions from methane release in capture and utilization/combustion/flare systems are determined based on the assumption that the capture and utilization/combustion/flare efficiency is 90%. Therefore project emissions from methane release in capture and flare/utilization systems are 10% of the methane emission potential of the wastewater treated in the wastewater treatment system in year *y*.

3) For determining the flaring efficiency the “Tool to determine project emissions from flaring gases containing methane” shall be used. As per the recommended revision of AMS-III.H, paragraph 38 shall be read as “Regular maintenance should ensure optimal operation of flares. The flare efficiency, defined as the fraction of time in which the gas is combusted in the flare, multiplied by the efficiency of the flaring process, shall be monitored and calculated as per the provision in the “Tool to determine project emissions from flaring gases containing methane”.

4) Concerning paragraph 34, it shall be demonstrated *ex ante* which wastewater and/or sludge treatment systems are affected by the implementation of the project activity. The wastewater and sludge treatment systems not affected by the project activity, i.e. that will be operating in the project scenario under the same operational conditions as in the baseline scenario (e.g. wastewater inflow and COD content, temperature, retention time, etc.), shall be described in the PDD and proper justification/explanation shall be given as to why operational conditions do not change.

It can be assumed that the treatment systems (lagoons, reactors, digesters, etc.) that will be covered and/or equipped with biogas recovery by the project activity, but will operate with the same feed inflow, volume (retention time), and temperature (heating) as in the baseline scenario, may be considered as not affected in their methane generation potential.

5) The methane content of the upgraded biogas shall be in accordance with national regulations or, in the absence of national regulations, a minimum of 96% (by volume). The last part of paragraph 42(d) shall therefore be read as “the methane content of the upgraded biogas shall be in accordance with national regulations (where these exist) or in absence of national regulations, a minimum of 96% (by volume). Biogas injected or transported with inferior methane content shall be excluded from the emission reduction calculations.”

Please note that the SSC WG recommended at this meeting a revision of AMS-III.H clarifying the issues mentioned above, including other changes to the methodology.



Signature of SSC WG Chair .....

(Ulrika Raab)

Date: 03/09/2008



Signature of SSC WG Vice-Chair .....

(Kamel Djemouai)

Date: 03/09/2008

**Information to be completed by the secretariat**

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