



**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>	19–22 October 2010, SSC WG 28
<i>Title/Subject (give a small title or specify the subject of your submission, maximum 200 characters):</i>	Revision of AMS-III.F for co-digestion of biomass waste and wastewater
<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.F “Avoidance of methane emissions through controlled biological treatment of biomass”
<i>Name of the authors of the query:</i>	Christine Clashausen Institution: EnBW Energie Baden-Württemberg AG <a href="mailto:c.clashausen@enbw.com">c.clashausen@enbw.com</a>

**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:

The PP requested clarification in SSC\_423 in SSC WG meeting 26.

The SSC WG clarified that in general co-digestion of waste water and solid biomass waste is applicable under AMS-III. F. ver. 8 ; however a revision of AMS-III. F. ver. 8 is required. The PP was invited to submit a request for revision of AMS-III. F. ver. 8 .

The PP would like to highlight that the revision of the AMS-III. F. ver. 8 offers the opportunity to develop integrated biomass waste projects which are currently not fully applicable under CDM.

The development of integrated biomass waste projects comprises:

- the treatment of several types of biomass waste (liquid, and solid)
- a treatment in a single system; i.e. all biomass waste can be mixed and treated in one digester.

This type of waste management would be very helpful to support the development and implementation of environment-friendly technologies for several agro-industries as starch, palm oil, fruit processing, beverage production (including breweries and distilleries) or food processing which have different types of biomass waste.

The opportunity to treat several types of biomass waste in CDM projects may open CDM options especially to small agro-industrial facilities. The use of several types of biomass waste in one system would lead to a bigger CDM project potential which might reach a minimum threshold in order to make a CDM project feasible.

In particular the following adjustments have been made:

- Relevant procedures regarding historical data requirements and Greenfield activities related to waste water treatment have been added in paragraph 20 and 21 in analogy to AMS-III.H.
- In case of significant amounts of co-digested waste water emissions from discharged waste water and final sludge might be observed. Therefore, relevant equations and procedures from AMS-III.H. have

been added in paragraphs 17, 22, 23, 24, 25 and 27.

- The methane emission potential of co-digested waste water is included in a conservative manner in paragraph 26 in analogy to AMS-III.H.
- Emissions due to incomplete flaring have been included in paragraph 27 in analogy to AMS-III.H.
- Physical leakage was expanded in paragraph 30 and 31 in order to encompass physical leakage resulting from co-digestion of waste water. As it might not be possible to determine the particular the COD-removal related to waste water in case of co-digestion, the calculation is based on the COD<sub>in</sub> (COD of waste water before treatment) as a conservative approach.
- Relevant monitoring procedures have been added in analogy to AMS-III.H.
- Consistency among parameters has been established by applying in general latest updated parameters provided by AMS-III.H.

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

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

Please refer to paragraph 7 of the meeting report of the SSC WG 28  
<[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 recommend: (a) Revision of AMS-III.F “Avoidance of methane emissions through composting” for aerobic controlled biological treatment of biomass, i.e. composting/co-composting; (b) A new methodology SSC-III.AO “Methane recovery through controlled anaerobic digestion” for anaerobic controlled biological treatment of biomass, i.e. digestion and co-digestion (including of co-digestion of manure). Please refer to the annexes 1 and 2 of the SSC WG 28 report, respectively. Projects involving anaerobic digestion of sludge generated in the wastewater treatment facilities as single substrate shall use AMS-III.H “Methane recovery in wastewater treatment”.

Signed by the Chair, Mr. Peer Stiansen

Date: 22/10/2010

Signed by the Vice-Chair, Mr. Hugh Sealy

Date: 22/10/2010

#### **Information to be completed by the secretariat**

SSC-Submission number	<a href="#">SSC_445</a>
Date when the form was received at UNFCCC secretariat	<a href="#">22 October 2010</a>
Date of transmission to the EB	<a href="#">22 October 2010</a>
Date of posting in the UNFCCC CDM web site	<a href="#">22 October 2010</a>