



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:	21–24 September 2009, SSC WG 22
Title/Subject (give a small title or specify the subject of your submission, maximum 200 characters):	Calculation of fcap where it is not possible to measure the waste energy (heat) of WECM and therefore there is no historic data available for these cases
Indicative methodology to which your submission relates (refer the items of Appendix B of the Simplified Modalities and Procedures), if applicable.	AMS-III.Q, version 02
Name of the authors of the query:	Sandeep Kota Institution: Core CarbonX Solutions Pvt Ltd. skota@corecarbonx.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.

Recommendation by the SSC WG:

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

Original text from PP:

This refers to the clarification about the calculation of fcap for the cases where it is not possible to measure the waste energy (heat, sensible heat, heat of reaction, heat of combustion etc.), enthalpy or pressure content of WECM and therefore there is no historic data available for these cases.

As specified in AMS III Q Version 02, fcap is defined as Capping factor to exclude increased waste energy utilization in the project year y due to increased level of activity of the plant, relative to the level of activity in the base years before project start. The ratio is 1 if the waste energy generated in project year y is same or less than that generated in base years. fcap shall be estimated according to the corresponding section of ACM0012.

ACM 0012 Version 3 provides Method-3 for determining of fcap in cases where it is not possible to measure the waste energy, enthalpy or pressure of WECM.

Under Case I of method 3 fcap is to be calculated as follows:

“For such cases fcap should be the ratio of actual energy recovered under the project activity (direct measurement) divided by the maximum theoretical energy recoverable using the project activity waste heat recovery equipment.”

However the ratio of actual energy to the theoretical energy recoverable will defy the purpose of excluding increased waste energy utilization in the project year y due to increased level of activity of the plant, relative to the level of activity in the base years before project start.

Moreover fcap is capped at 1 if the waste energy generated in project year is less than that of the base year and fcap will be the value calculated if the waste energy generated in project year greater than that of the base year.

In the Method -3, case 1 as specified in the ACM 0012 Version 03.1, in case of increase plant activity producing more amount of waste energy; the ratio will be greater than 1 and the same will be applied in the emission reduction calculation thereby increasing the emission reductions which is not conservative. Hence, fcap has to be the ratio of maximum theoretical energy recoverable using the project activity waste heat recovery equipment divided by the actual energy recovered under the project activity (direct measurement) and not the other way around. Method 1 and Method 2 of ACM 0012, version 03 also supports the same convictions reflecting the ratio of quantity of waste energy released /generated in the historical year or prior to the project activity divided by quantity of waste energy used in the project activity.


Please refer to paragraph 39 of the meeting report of the SSC WG 22 (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 the issue is under the consideration of the Meth Panel and the project proponent shall follow the progress accordingly.



Signature of SSC WG Chair

(Hugh Sealy)

Date: 24/09/2009



Signature of SSC WG Vice-Chair

(Peer Stiansen)

Date: 24/09/2009

Information to be completed by the secretariat

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