



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:	As per procedures for fast track clarifications
Title/Subject (give a small title or specify the subject of your submission, maximum 200 characters):	Clarification on AMS-III.Q regarding estimating baseline emissions from thermal energy
Indicative methodology to which your submission relates (refer the items of Appendix B of the Simplified Modalities and Procedures), if applicable.	AMS-III.Q – Waste energy recovery (gas/heat/pressure) projects
Name of the authors of the query:	Ricardo Esparta Institution: Ecopart Ltda focalpoint@ecoinv.com.br , ricardo.esparta@ecoinv.com.br

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:

We request guidance to calculate baseline emissions for project activities which utilize waste heat for direct use as process heat displacing fossil fuel use.

Paragraph 9 of AMS-III.Q, version 2, provides equations to calculate the baseline emission reductions in the cases where:

Equation 1 - baseline emissions from electricity ($BE_{elec,y}$) generated by waste energy, in the situation where in the absence of the project activity, electricity would be obtained from a specific existing power plant or from the grid;

Equation 3 - baseline emissions from electricity ($BE_{elec,y}$) to provide mechanical energy generated by waste energy, in the situation where in the absence of the project activity, mechanical energy would be provided by electric motor(s).

However, no guidance is provided to estimate baseline emissions from waste heat direct use as process heat, in the situation where in the absence of the project activity heat is obtained from fossil fuel based element process (e.g., steam boiler, hot water generator, etc.).

We believe that the formula used in ACM0012 version 3.1, equation (1a-2), and transcript below, may be applicable to AMS-III.Q too:

$$BE_{Ther,y} = f_{cap} * f_{wcm} * \sum_j \sum_i (HG_{j,y} + (MG_{i,j,y,tur} / \eta_{mech,tur})) * EF_{Heat,i,j,y}$$

Where:

1. $BE_{Ther,y}$ = Baseline emissions from thermal energy (as steam) during the year y in tCO₂
2. $HG_{j,y}$ = Net quantity of heat (enthalpy) supplied to the recipient plant j by the project activity during the year y in TJ

3. $EF_{heat,j,y}$ = The CO₂ emission factor of the element process supplying heat that would have supplied the recipient plant j in absence of the project activity, expressed in tCO₂/TJ

The other parameters are the same as in equation (3) of AMS-III.Q, version 2.

Please clarify whether the above-suggested formula is applicable. If not, please clarify the necessary procedures to calculate the baseline emissions for project activities that utilize waste heat as an energy source for direct use as process heat displacing fossil fuel use.

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.

The ACM0012 version 3.1 procedures cited by the query author to calculate the baseline emissions for project activities that utilize waste heat as an energy source for direct use as process heat displacing fossil fuel use are appropriate to use when applying AMS-III.Q. The SSC WG agreed to recommend including the procedures and the equation at the next revision of AMS-III.Q.

Ulrika Raab

Signature of SSC WG Chair

(Ulrika Raab)

Date: 20/01/2009

Kamel Djemouai

Signature of SSC WG Vice-Chair

(Kamel Djemouai)

Date: 20/01/2009

Information to be completed by the secretariat

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