



**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>	15–18 March 2011, SSC WG 30
<i>Title/Subject (give a small title or specify the subject of your submission, maximum 200 characters):</i>	Revision of AMS-III.Q to cover project activities with multiple waste heat sources and combined cycle component
<i>Indicative methodology to which your submission relates (refer the items of Appendix B of the Simplified Modalities and Procedures), if applicable.</i>	AMC-III.Q “Waste Energy Recovery (gas/heat/pressure) Projects”
<i>Name of the authors of the query:</i>	Luca Morganti Institution: First Climate Group <a href="mailto:Luca.morganti@firstclimate.com">Luca.morganti@firstclimate.com</a> , <a href="mailto:Mischa.Classen@firstclimate.com">Mischa.Classen@firstclimate.com</a>

**Summary of the query:**

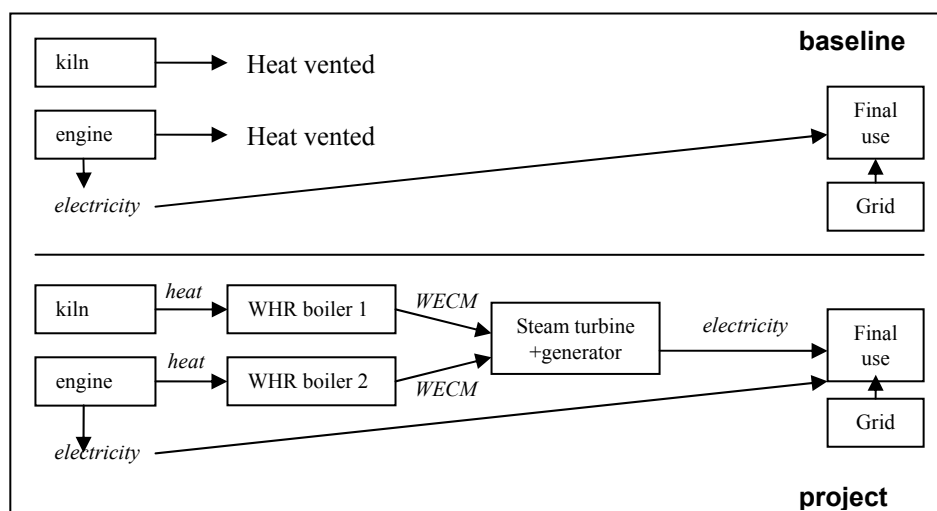
Please use the space below to summarize the query related to SSC methodologies/categories SSC Modalities and Procedures provide recommendation/analysis of the SSC WG.

Original text from PP:

The request relates to an earlier request (SSC\_497) to extend AMS-III.Q to project activities with multiple waste heat sources, some of which, once recovered, would transform single-cycle power units (e.g. gas turbine or diesel generator) into a combined cycle.

Currently, due to condition 6.c at page 2, methodology AMS-III.Q excludes cases where the waste gas/heat recovery project is implemented in a single-cycle power plant where heat on-site is not utilisable for any other purpose except to generate power.

In a real case (PDD attached) of a cement factory, the project activity aims at collecting waste heat from a kiln AND from an internal combustion engine. Both waste heat sources are not utilisable for any other purpose on-site except to generate power. Steam is generated in two separate waste heat recovery boilers, and then it is fed to the same steam turbine to produce electricity. The electricity output of the project activity can be allocated clearly to the respective waste heat source (kiln or engine) based on the portion of the energy input in the steam turbine, i.e. proportionally to the enthalpy of the Waste Energy Carrying Medium (WECM) streams, calculated from measures of the quantity of steam, temperature and pressure at the output section of the waste heat recovery boilers.



The revision aims at allowing combined use of AMS.III-Q with AMS.III-AL, where each methodology is applied to the respective component, i.e. AMS.III-Q to the waste heat (and respective electricity output) that does not constitute a combined cycle, and AMS.III-AL for the portion of waste heat (and respective electricity output) that represents a conversion of a single cycle (IC engine) into a combined cycle (IC engine + steam turbine).

For each of the 2 components, the respective methodology is used to determine the baseline and to set the parameters to be monitored. Additional clause is added in AMS.III-Q to ensure that the WECM stream parameters are adequately measured to ensure objective allocation of the electricity output to the 2 components.

In this way the CDM could provide incentive to make best use of all of the potentially available waste heat sources in a plant. In the current form, the methodology is not even application to the elemental process component (e.g. the kiln) due to the presence of the ineligible heat (from IC engine) within the project boundary.

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

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

Please refer to paragraph 15 of the meeting report of the SSC WG 30  
<[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.Q, as contained in annex 10, to cover project activities with multiple fuel and multiple waste heat sources.

Signed by the Chair, Ms. Fatou Gaye

Date: 18/03/2011

Signed by the Vice-Chair, Mr. Peer Stiansen

Date: 18/03/2011

**Information to be completed by the secretariat**

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