



**Approved baseline and monitoring methodology/
methodological tool clarification response form
(Version 02.0)**

INFORMATION TO BE COMPLETED BY THE SECRETARIAT OR PANEL/ WG

Date and number of Panel/ WG meeting:	7–11 October 2013, MP 61
Title/Subject of the request for clarification:	Application of baseline scenarios for heat generation in waste energy recovery projects
Reference number of the request for clarification:	AM_CLA_0250
Exact reference (number, title and version) of the methodology or methodological tool to which the request for clarification applies:	ACM0012: Consolidated baseline methodology for GHG emission reductions from waste energy recovery projects - version 4
Fast track or Regular track:	<input type="checkbox"/> Fast track <input checked="" type="checkbox"/> Regular track

Summary of the request for clarification

Original text from the submitter:

The clarification is regarding the identification of the baseline scenario of heat generation using waste gas, according to the approved methodology ACM0012 version 4.

The underlying project activity is to implement waste energy recovery projects at an integrated steel plant, including:

- Recovery of waste heat from the exhaust of blast furnace stoves to preheat combustion air and fuel gas for the blast furnace stoves,
- Recovery of waste heat from the exhaust of reheating furnaces of rolling mills to preheat combustion air and fuel gas for the reheating furnaces,
- Recovery of hot waste gas from cooling of sinters as hot combustion air or process heat of sinter ignition, or for generation of electricity,
- Recovery of LD gas from a Linz Donawitz Converter (basic oxygen furnace) as fuel gas for the reheating furnaces of rolling mills.

This request is seeking for the clarification on:

- Whether the blast furnace stoves or the rolling mills reheating furnaces, sinter ignition furnace and coke oven batteries can be considered as element processes, and
- Whether the baseline scenario (H6/H8) identified in ACM0012 version 4 are applicable to this type of projects which use internally-generated by-product gases (not any fossil fuel) in element processes.

In addition, the request is to seek suggestion on the baseline scenarios for heat generation which are displacing by-product gases and reducing GHG emissions, if the identified baseline scenarios are not applicable to this type of heat generation project.

Clarification by the secretariat or Panel/ WG

The Methodologies Panel (Meth Panel) clarifies that in an element process as defined by ACM0012 version 4, the heat generated by fuel combustion is transferred to one output (such as hot oil, air or steam). For each element process, it must be possible to monitor the useful energy (e.g. the enthalpy of the steam multiplied with the steam quantity) and the supplied energy to the element process (the net calorific values of the fuel(s) multiplied with the respective fuel quantity) and to calculate energy efficiency as the ratio between the useful energy and the energy supplied.

The Meth Panel considers that the following processes are not element processes, because multiple outputs are produced and it is not possible to monitor the useful energy transferred in case of multiple outputs and to calculate the efficiency of the these processes:

- (a) The blast furnace stoves, because they preheat multiple outputs: i.e. combustion air and fuel gas;
- (b) The rolling mills reheating furnaces because they preheat multiple outputs of the process: i.e. hot air and hot billets/slabs;
- (c) The sintering process of sinter ignition furnace because it changes the chemical properties of constituents of sinter while they are fused by heat;
- (d) The coke oven batteries because they produce coke from coal and heat through chemical transformation.

The Meth Panel considers that it is not necessary to respond to the remaining queries given that the processes above are not element processes.

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
02.0	18 July 2013	Revised to remove the row "Date and signature of the chair and vice chair of Panel/WG (in case of clarification by Panel/WG)".
01.0	4 July 2013	Initial publication. This document supersedes and replaces the following documents: <ul style="list-style-type: none"> • Recommendation Form for Small Scale Methodologies (F-CDM-SSCwg) (Version 01.1) • Recommendation Form for Small Scale A/R Methodologies and Procedures (F-CDM-SSC-AR) (Version 01.1).
Decision Class: Regulatory Document Type: Form, Clarification Business Function: Methodology Keywords: applying methodologies and tools		