



**CDM: Response form for Request for revision of approved methodologies
(version 01.1)**

<i>Date of Meth Panel meeting:</i>	11 - 15 June 2012
<i>Title and number of Request for revision</i>	AM0025, Avoided emissions from organic waste through alternative waste treatment processes, Version 12.0 AM_REV_0226

Summary of the query:

Please use the space below to summarize the request for revision on the related approved methodologies.

AM0025 “Avoided emissions from organic waste through alternative waste treatment processes” is applicable to project activities that involve one or a combination of waste treatment options for fresh waste that in a given year would have otherwise been disposed of in a landfill. Among these waste treatment options is the **gasification** to produce syngas and the use of this syngas. According to the applicability conditions of the approved methodology, the **residual waste** from the process of gasification is **aerobically composted and/or delivered to a landfill**.

The project activity described in project design document (PDD) submitted with this request for revision involves the installation of a gasification system to gasify fresh municipal solid waste (MSW), and the production of syngas that is used as a fuel in the calciner of a clinker production facility, replacing the heat previously provided by burning coal. The residual waste from MSW gasification is used as raw material for the production of clinker.

The request for revision proposes:

1. To expand the applicability of the methodology to cases in which the residual waste after the gasification of MSW is used as raw material for clinker production;
2. Leakage emissions should be estimated using equation 32 and 33 of AM0025 version 12 for cases where the residual waste is used as raw material of the clinker production, this is consistent with the calculation leakage emissions from the residual waste from MSW incineration;
3. That the net quantity of thermal energy supplied by the project activity (Q_v) is measured (as stated in monitoring tables):
 - For cases using steam meter: the enthalpy of steam and feed water will be determined at the measured temperature and pressure and the enthalpy difference will be multiplied with quantity measured by steam meter.
 - For cases using hot air: the temperature, pressure and mass flow rate will be measured.

However, the produced syngas of the proposed project will be utilized by the calciner as a fuel to provide thermal energy; though it's impossible to determine the net quantity of thermal energy by measuring the enthalpy of steam and feed water or hot air. Therefore, it is proposed that the net quantity of thermal energy supplied by the project is determined through direct measurement of volumetric flow rate of the syngas in the hour h and volumetric fraction of component i in the syngas in the hour h where $i = CH_4, CO, CO_2, O, H_2, N_2$ at the inlet of the calciner.

Recommendation by the Meth Panel:

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

Please refer to paragraph 13 of the meeting report of the MP 56

[<http://cdm.unfccc.int/Panels/meth/index.html>](http://cdm.unfccc.int/Panels/meth/index.html).

(b) Please use the space below for providing guidance, as per Para 93 of EB25 Report, on what type of projects need to revise the PDD as a consequence of the suggested revision, if the recommendation is to revise the methodology.

Not applicable.

Answer to authors of the request for revision by the Meth Panel :

Please use the space below to provide an answer to the authors of the above query

The Meth Panel recommends to partially approve this request for revision with modifications as necessary, and include it in the top-down revision of AM0025. The draft revised methodology is contained in annex 5 to the fifty-sixth Meth Panel meeting report.

Regarding the issues raised in the request for revision see below a detailed response to the request:

1. Regarding the fate of the by-products (residual waste) that are generated from the MSW gasification process, the revised methodology clarifies that the use of these by-products (e.g. ashes) as a feedstock for another process is allowed. However, the emission reductions from use of these by-products would need to be claimed under a separate project activity, registered using a different methodology (e.g. ACM0005). Nevertheless, in case the by-product is used as feedstock for another process, any revenues from selling the by-product should be taken into account in the additionality assessment of the waste treatment project activity. In case the project proponent for both the waste treatment and the blended cement project under ACM0005 is the same, then the price of the residual material should be assumed to be zero in the blended cement project.
2. If the residual waste is used for the production of clinker, leakage emissions will be treated in the same manner currently proposed in the draft revision of AM0025. The draft revision neglects such emissions from residual waste from gasification as they are negligible.
3. The project activity described in this request is the production of syngas that is used as a fuel in the calciner of a clinker production facility, replacing the heat previously provided by burning coal. The draft revision of AM0025 allows for such cases. However, in the particular case that the products are used in the cement industry, the emission reductions for this use should be claimed under a separate registered project activity using another CDM methodology (e.g. ACM0003). In any case, any revenues from selling the products should be taken into account in the additionality assessment of the waste treatment project activity. In case the same project proponent for both the waste treatment and the alternative fuels project under ACM0003 is the same, the price of the syngas should be assumed to be zero in the alternative fuels project.

Signed by the Chair, Mr. Thomas Bernheim

Date: 15/06/2012

Signed by the Vice-Chair, Mr. Hugh Sealy

Date: 15/06/2012

Information to be completed by the secretariat

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