



CDM: Response form for request for clarification on Approved Methodologies (version 01.1)

<i>Date of Meth Panel meeting:</i>	21 – 25 June 2010
<i>Title and number of request for clarification</i>	Clarification of the method of estimation of the electricity that would be generated by the operation of the power plant in open cycle mode in the baseline scenario based on the historical load situation AM_CLA_0176

Summary of the query:

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

Background

The project proponents seek clarification on ACM0007 “Baseline methodology for conversion from single cycle to combined cycle power generation”.

To estimate $OG_{H,y}$, the electricity generation of the open cycle mode in the baseline, ACM0007 selects the more conservative option between: (a) Average net annual generation based on five years of records; and (b) Actual electricity in year y scaled by the generation capacity of the open cycle system and the capacity of the combined cycle system. For Option (a), if five years of data are not available, ACM0007 allows a minimum of 3 complete years to be used.

In addition, the estimation of the open cycle emission factor in the baseline scenario, EF_{oc} in tCO_2/MWh , requires five years of data and a minimum of one complete year.

Project Activity

This clarification is related to potential CDM project activities in Jordan which involve the conversion of two gas turbines. These two turbines have been in operation for 32 months and 25 months, respectively. The PP proposed two options to estimate $OG_{H,y}$:

Option (1): Average over three years, including the 4 (=36-32) and 11 (=36-25) months as zero; and

Option (2): Average over the 25 months, when both gas turbines were operated in open cycle.

A sensitivity analysis shows that the amount of CER in the case is more sensitive to the variation in EF_{oc} than the variation in $OG_{H,y}$.

Request

- Is it appropriate to apply **Option (1)** to estimate the value of parameter $OG_{H,y}$ for the proposed CDM project in Jordan?
- Why does ACM0007 Version 3 have different minimum historical data requirements for the estimation of $OG_{H,y}$ and EF_{oc} ?

Recommendation by the Meth Panel:

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

Not applicable.

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

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

Answer to Question 1:

The Meth Panel clarifies that at least three full years of historical net generation data are required for the calculation of the baseline emissions and in order to ensure that the continuation of the current practice is the baseline scenario. It is not appropriate to apply Version 3 of ACM007 to the open cycle units that have been in operation for less than three years.

The project proponents may explore the possibility of submitting a request for deviation on this matter, in order to apply Option 1 to the specific conditions of their project.

Answer to Question 2:

The Meth Panel clarifies that it is expected that $OG_{H,y}$ has more year-to-year variation, depending on the other plants connected to the grid system and the dispatch, while EF_{OC} is an intrinsic parameter of the baseline open cycle system and has less year-to year variation.

However, the Meth Panel agreed that $OG_{H,y}$ and EF_{OC} are closely related parameters for estimating the baseline emissions. If three full years of historical data is available on electricity generation, the project participants should also have the fuel consumption of the same system during the same period. Therefore, ACM0007 is revised to require a minimum of three full years of historical data for the estimation of EF_{OC} .

Signed by the Chair, Mr. Lex de Jonge

Date: 25/06/2010

Signed by the Vice-Chair, Mr. Philip Gwage

Date: 25/06/2010

Information to be completed by the secretariat

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