



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

**INFORMATION TO BE COMPLETED BY THE SECRETARIAT OR PANEL/WG**

<b>Date and number of Panel/WG meeting:</b>	26–29 August 2013, SSC WG 41
<b>Title/Subject of the request for clarification:</b>	Clarification on AMS-II.Q with respect to the use of data for determining baseline emissions
<b>Reference number of the request for clarification:</b>	SSC_682
<b>Exact reference (number, title and version) of the methodology or methodological tool to which the request for clarification applies:</b>	AMS-II.Q “Energy efficiency and/or energy supply projects in commercial buildings”
<b>Fast track or Regular track:</b>	<input type="checkbox"/> Fast track <input checked="" type="checkbox"/> Regular track

**Summary of the request for clarification**

Original text from PP:

This is with reference to our CDM project activity which is under the SSC methodology AMS.II.Q/version-01.0. Measure – Energy Efficiency in Commercial Building

**Requirement of the Methodology AMS.II.Q/version-01:**

As per the methodology AMS.II.Q/version-01.0 “*The ex ante baseline emissions scenario shall be based on the characteristics and operation of the existing building(s) (Retrofit) or the building(s), which would have been constructed in the absence of the CDM project activity (New Construction). The sources of data used to establish the baseline building energy use shall be cited and referenced in the PDD.*”

(a) In the case of a retrofit of an existing building (Retrofit), the ex ante baseline emissions scenario is based on the energy consumed over the past 12 months in the subject building(s)(refer to Figure 1, left pathway in “Baseline”);

(b) **In the case of the construction of a new building (New Construction), the ex ante baseline emissions scenario shall be based on one of the following two approaches (refer to Figure 1, right pathway in “Baseline”):**

(i) Where there is a legally mandated code on energy performance and/or equipment performance standard(s), the baseline emissions scenario is based on minimum energy requirements in the building code and/or equipment performance standard(s) for the subject building type(s) or classification(s) in the same climate zone (e.g. in kWh/m<sup>2</sup>/year); or

(ii) **Where there is no legally mandated building code nor equipment performance standard(s) on energy performance, the baseline emissions scenario is based on the average energy consumption in buildings of the same or similar building type, usage or classification as the subject building(s) within the same climate zone. Additional guidelines included in appendix 2 can be referred in this regard.**

**Limitations in data collation and its application:**

As per the methodology the possible sources for obtaining the average energy consumption in buildings of the same or similar building type, usage or classification as the subject building(s) within the same climate zone may be the national statistics agency (preferred), an industry association or from relevant literature (e.g. industry or research reports/papers).

PP has explored all options of obtaining the aforesaid data however this data is treated as confidential by the building promoters and was not made available to Building associations and PP. The major limitations of obtaining the data were as follows:

- The data information like B settings of existing Base Building with similar building type, usage or

classification as the subject building within the same climate zone as required by AMS IIQ is not available in the public domain data

- The promoters of the buildings are not ready to share the data information of their existing buildings; which includes building design features; electronic appliances, equipments and/or technologies used for the buildings and the average energy consumption to any association/government/PP.
- The existing Buildings do not have elaborate monitoring systems that capture energy consumption for individual work areas like HVAC and Lighting. The Electricity Bill generated by the State Electricity Board provides total energy consumption of the building that is a sum of all work area like HVAC, Lighting System, Electronic Loads like computers, kitchen electronics etc.

In light of the aforesaid PP is not in a position to obtain data information of existing Building(s) required for ex-ante baseline calculations.

The PP may (with inputs from vendors and HVAC - Lighting consultant) determine alternative measures available for implementation in HVAC/Lighting Systems in the building with one of the alternatives being the project activity measures without CDM in line with 'Step 1 Identification of alternative scenarios' of the "Combined tool to identify the baseline scenario and demonstrate additionality", Version 05.0.0.

Thereafter PP will determine the baseline alternative and the additional alternative amongst the identified alternatives in line with 'Step 2 Barrier Analysis' and/or 'Step 3 Investment Analysis' of the "Combined tool to identify the baseline scenario and demonstrate additionality", Version 05.0.0. If project activity is the additional alternative PP will proceed further.

The HVAC – Lighting consultant would provide the B settings of the baseline alternative and the project activity alternative determined above as per the building characteristic measures adopted in the baseline and project activity alternative.

The ex-ante baseline emissions may be determined based on a whole building computerized simulation model **with the building characteristics (B settings) for the baseline alternative** and ex-ante project emissions may be determined based on a whole building computerized simulation model with **the building characteristics (B settings) for the project activity alternative** using the average or typical weather data for the location, the proposed physical building characteristics and the occupancy setting.

We seek clarification on way forward in this regard.

#### Clarification by the secretariat or Panel/WG

The small-scale working group (SSC WG) of the CDM Executive Board would like to thank the author for the submission.

The SSC WG agreed to clarify that it is conceptually acceptable to use the relevant procedure in the "Combined tool to identify the baseline scenario and demonstrate additionality" to identify the Base Building settings (B setting) for Greenfield projects. The SSC WG would like to draw PP's attention to the section J (Type II and III Greenfield projects) of the "General guidelines for SSC CDM methodologies",<sup>1</sup> which provides comparable guidance for Greenfield projects. Nevertheless, in order to account for this option of a 'reference building,' AMS-II.Q requires modifications to indicate how this reference building will be defined and what considerations should be included when defining the reference building so that the emission reductions are calculated in a conservative manner. Thus, the project proponent is invited to propose a revision of the methodology to accommodate these changes for consideration at the next meeting of the SSC WG.

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<sup>1</sup> [http://cdm.unfccc.int/Reference/Guidclarif/ssc/methSSC\\_guid25.pdf](http://cdm.unfccc.int/Reference/Guidclarif/ssc/methSSC_guid25.pdf)

## 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”
01.0	4 July 2013	Initial publication. This document supersedes and replaces the following documents: <ul style="list-style-type: none"><li>• Recommendation Form for Small Scale Methodologies (F-CDM-SSCwg) (Version 01.1)</li><li>• Recommendation Form for Small Scale A/R Methodologies and Procedures (F-CDM-SSC-AR) (Version 01.1)</li></ul>

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