



**Approved baseline and monitoring methodology/
methodological tool clarification request form
(Version 01.0)**

To be used when submitting requests for clarification of approved methodologies or methodological tools in accordance with "Procedure: Development, revision and clarification of baseline and monitoring methodologies and methodological tools" (CDM-EB70-A36-PROC).

INFORMATION TO BE COMPLETED BY ENQUIRERS

Name of the enquirer:	ENERGEST S.A.
Affiliation:	<input type="checkbox"/> Designated National Authority (DNA) <input type="checkbox"/> Designated Operational Entity (DOE) <input checked="" type="checkbox"/> Project Participant (PP) <input type="checkbox"/> Coordinating/ Managing Entity (CME) <input type="checkbox"/> Other Stakeholder
Title/Subject: <i>(give a short title or specify the subject of your submission, maximum 200 characters)</i>	Calculation of $EG_{PJ,y}$ and monitoring in the case of a capacity addition hydro power plant CDM project which was also subject to a retrofit that is not included in the CDM scope
Exact reference (number, title and version) of the methodology or methodological tool to which the request for clarification applies:	ACM0002: Grid-connected electricity generation from renewable sources --- Version 16.0
Name of authorized officer signing for the enquirer:	Pedro Sirgado
Contact Information: <i>(E-mail addresses and phone contacts for possible dialogue on the submission)</i>	pedro.sirgado@edpbr.com.br Telephone: +55 11 2185 5990
Date (06/04/2015) and signature for the enquirer:	6 th April 2015

Clarification request

Please substantiate the queries relating to the application of approved methodologies or methodological tools. If the queries are related to a project activity or programme of activities under development or implementation, please describe the context in which they arose. If necessary, attach files or refer to sources of relevant information.

The enquirer is preparing the renewal of the crediting period of the CDM project UHE Mascarenhas power upgrading project, originally registered on the 26th of May 2008. The CDM project consisted on the addition of the fourth generation unit with a capacity of 49.5 MW on the Mascarenhas power plant. This plant had an installed capacity of 131 MW prior to the capacity addition and 180.5 MW after the capacity addition.

For the current renewal, a revised PDD is being prepared, using the current version (16) of the ACM0002 methodology. As required for renewals of crediting period, the PDD is being updated in the sections related to baseline, estimated GHG emission reductions and monitoring plan.

Version 16 of the methodology requires that for capacity addition projects, the quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity is calculated using the formula:

$$EG_{PJ,y} = EG_{facility,y} - (EG_{historical} + \sigma_{historical});$$

Where:

$EG_{PJ,y}$	=	Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh/yr)
$EG_{facility,y}$	=	Quantity of net electricity generation supplied by the project plants/units to the grid in year y (MWh/yr)
$EG_{historical}$	=	Annual average historical net electricity generation delivered to the grid by the existing renewable energy power plants/units that was operated at the project site prior to the implementation of the project activity (MWh/yr)
$\sigma_{historical}$	=	Standard deviation of the annual average historical net electricity generation delivered to the grid by the existing renewable energy power plants/units that was operated at the project site prior to the implementation of the project activity (MWh/yr)

The methodology also refers that a separate metering of electricity supplied to a grid by the added plants/units is not necessary if the CDM project consists of a capacity addition.

However, in the specific case of UHE Mascarenhas power upgrading project, after the original CDM registration, the remaining three generation units were subject to a retrofit which was not implemented under the CDM. The total current installed capacity of the project is now 198 MW. The retrofit of the three units has added additional 17.5 MW to the power plant.

Therefore, if the methodology is followed, GHG emission reductions will be highly overestimated, as they will be arising not only from the capacity addition of the fourth generation unit (CDM project) but also from the retrofit of the remaining three generation units which were not undertaken under the CDM.

The project participants would therefore like to clarify if for the purpose of the renewal of the crediting period, the CDM project UHE Mascarenhas power upgrading project can be considered as a Greenfield power plant, in terms of baseline, estimated GHG emission reductions and monitoring plan, which was also the approach taken at the original registration of the project activity on the 26th of May 2008 when using version 6 of ACM0002.

The approach taken is:

- i. the separate metering of electricity supplied to a grid by the added unit
- ii. the calculation of the emission reductions considering that the quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity ($EG_{PJ,y}$) equals the quantity of net electricity generation supplied by the added unit to the grid ($EG_{facility,y}$).

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
01.0	1 April 2013	<p>Initial publication. This document supersedes and replaces the following documents:</p> <ul style="list-style-type: none">• Form for submission of queries from DOEs to the Methodologies Panel regarding the application of approved methodologies (F-CDM-AM-Subm) (Version 01.1);• Form for submissions on Small Scale Methodologies and Procedures (F-CDM-SSC-Subm) (Version 03.1);• Form for submission of queries from DOEs to the Afforestation and Reforestation Working Group regarding the application of approved A/R methodologies (F-CDM-AR-AM-Subm) (Version 01.1);• Form for Submission on Small Scale Afforestation/Reforestation Methodologies and Procedures (F-CDM-SSC-AR-Subm) (Version 02.1).
<p>Decision Class: Regulatory Document Type: Form Business Function: Methodology Keywords: request for clarification, revising or withdrawing methodologies and tools</p>		

