



**CDM: Proposed New Methodology**  
**Meth Panel summary recommendation to the Executive Board**  
**(version 01)**

*(To be used by the Meth Panel in addition to the full recommendation to the Board regarding a proposed new methodology (F-CDM-NMmp))*

<i>Date and number of Meth Panel meeting:</i>	28 May - 1 June 2007, Meth 27
<i>Related F-CDM-NM document ID number (electronically available to EB members)</i>	F-CDM-NM0121-rev: “Bumbuna Hydroelectric Project”
<i>Title of proposed new baseline methodology:</i>	Hydropower Projects that Create New Reservoirs or Expand Existing Ones
<i>Title of underlying project activity:</i>	Bumbuna Hydroelectric Project
<i>History of submission: (new section)</i>	<p>First submission at Round 11;</p> <p>Clarifications received in response to preliminary recommendation at Meth 20;</p> <p>Final recommendation at Meth 22;</p> <p>Second submission at Round 19</p> <p>Final recommendation at Meth 27 (C)</p>
<b>1. One sentence describing the purpose of the methodology. (new section)</b>	
<p>This methodology is designed for project activities dealing with hydroelectric power plants, which are based on new or expanded reservoirs, and which are connected to small-sized grids that also include alternative, off-grid generation resources.</p>	
<b>2. Suggested applicability of methodology (former section A.I and B.I)</b>	
<ul style="list-style-type: none"> <li>• The project activity will provide electricity to the grid, displacing power that would otherwise be provided by other generating sources through the operation and expansion of the power sector;</li> <li>• The geographic and system boundaries for the relevant grid can be clearly identified and information on the characteristics of the grid is available;</li> <li>• The project is in a power sector that is not dominated by generating sources with zero- or low-operating costs such as hydro, geothermal, wind, solar, nuclear, and low-cost biomass, and this fuel mix is expected to persist for the duration of the crediting period;</li> <li>• Reservoirs are created or expanded as a result of a hydroelectric project activity</li> </ul>	
<b>3. Summary description of baseline methodology . Short statements on each on how the proposed methodology: (chooses the baseline scenario, demonstrates additionality, calculates baseline emissions, calculates project emissions, calculates leakage, calculates emission reductions) (former section B.I.)</b>	
<p><b>Baseline Scenario Selection:</b> the proposed methodology uses the same approach as ACM0002 to analyze the potential scenarios and to ensure that out of all the alternatives, none is likely to happen except for the chosen baseline scenario. The project developer can also use Step 1 of the tool for the demonstration and assessment of additionality to assess the potential alternatives.</p> <p><b>Additionality:</b> The methodology proposes to use the “Tool for the demonstration and assessment of additionality.</p> <p><b>Baseline Emissions:</b> Baseline emissions are the product of the baseline emissions factor multiplied by the electricity supplied by the project activity to the grid minus any carbon sequestration that would likely have</p>	

occurred in the baseline scenario in the area inundated by the reservoir  $\Delta\text{CO}_2\text{FF}$  in year  $y$ .

Project Emissions: There are three types of project emissions (associated with the reservoir) that will be considered here: 1. Bubbling (emissions of GHGs that take place above the sediment-water boundary); 2. Diffusion (methane forms in sediments when the decomposition of organic matter exhausts all other available oxidants) and 3. Degassing (Gas exportation to downstream aquatic systems).

Leakage: The main leakage potential is derived from deforestation resulting from close proximity to the reservoir. The same formulas outlined in the baseline section will be used to quantify the impact in terms of likely carbon emitted or sequestered by the deforested areas.

**Emissions reductions:**  $\text{ER}_y = \text{BE}_y - \text{PE}_y - \text{Ly}$ .

4. Suggested "recommendation level" for the baseline and monitoring methodologies (A, B or C).  
(former section A.I and A.II.)

C. Not to be approved.

5. Major reasons for B/C choice from the proposed baseline methodology: (outline the major reasons for needing revision/rejection)  
(former section A.I.)

The Meth Panel considered reports from experts on the scientific agreement on methods for the measurement of greenhouse gas emissions from reservoirs, prepared following the request of the Panel at its twenty-sixth meeting for the case NM0121-rev. The Meth Panel noted that the experts were of the view that the extrapolation of point measurements to estimate reservoir-wide emissions may not be very reliable. The experts also noted that further work is underway to improve measurement procedures and these efforts are not likely to conclude in the immediate future. The Meth Panel agreed to recommend that submissions for project activities involving hydro power plants with a power density less than 4 W/m<sup>2</sup> should only be considered after the expert community working on methods for the measurement of greenhouse gas emissions from reservoirs have concluded their work, except for reservoirs where it can be demonstrated that the emissions are negligible.

6. Any major issues arising from the assessment of the proposed monitoring methodology (if different to those already raised above).  
(former section A.II.)

No.

7. Any other issues arising to be stated, if necessary (e.g. cross-cutting, general or precedent-setting issues raised by the proposed new baseline or monitoring methodology).

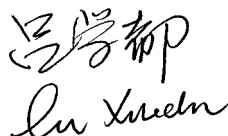
No.



Signature of Meth Panel Chair .....

Date: 05/06/2007

(Akihiro Kuroki)



Signature of Meth Panel Vice-Chair .....

Date: 05/06/2007

(Xuedu Lu)

**Information to be completed by the secretariat**

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