



**Proposed standardized baseline recommendation form
(Version 02.0)**

**INFORMATION TO BE COMPLETED BY THE TWO SELECTED MEMBERS OF THE PANEL/ WORKING GROUP
THE PANEL/WORKING GROUP** **OR**

Title of the proposed standardized baseline:	Emission factors for the electricity grid systems in The Gambia
Reference number of the proposed standardized baseline:	PSB0026
Name(s) of the Party or Parties to which the proposed standardized baseline applies:	Republic of The Gambia
DNA submitting the proposed standardized baseline:	DNA of The Gambia
Name(s) of the proponent(s) of the proposed standardized baseline: <i>(Parties, project participants, international industry organizations or admitted observer organizations)</i>	United Nations Development Programme and Mitsubishi UFJ Morgan Stanley Securities Co., Ltd.
History of the submission:	First submission received on 8 th September 2014 Second submission received on 8 th November 2014 Third submission received on 22 nd December 2014 Fourth submission received on 22 nd January 2015
Date (DD/MM/YYYY) when the recommendation is completed:	11/03/2015

Approach for the development of the proposed standardized baseline:

- The "Guidelines for the establishment of sector specific standardized baselines"
- A methodological approach contained in an approved baseline and monitoring methodology (Please specify below the exact reference (number, title and version) of the approved methodology
AMS-I.F "Renewable electricity generation for captive use and mini-grid" version 2.0
- A methodological approach contained in an approved methodological tool (Please specify below the exact reference (title and version) of the approved tool "Tool to calculate the emission factor for an electricity system", version 4.0
- The "Guideline: Establishment of standardized baselines for afforestation and reforestation project activities under the CDM"

Important conditions under which the proposed standardized baseline is applicable:

Any sector involving the emissions from the relevant grid or mini-grids in the Republic of The Gambia that will be impacted by CDM project activities:

- supplying electricity to the central grid/mini-grids or
- result in savings of electricity that would have been provided by the central grid/mini-grids (e.g. demand side energy efficiency)

Summary description of the proposed standardized baseline:

The proposed standardized baseline determines the emission factors of a central grid and six independent regional mini-grids in The Gambia:

- The emission factor of a central grid is determined in accordance with “Tool to calculate the emission factor for an electricity system”
- The regional grid systems have total installed capacity ranging from 0.22 MW to 3.30 MW (i.e., less than 15 MW) and have been classified as “mini-grids” as per the definition provided under the small scale methodology AMS-I.F. All generators in the mini-grids are exclusively diesel-fired and the emission factors for six regional mini-grids are determined using the default value provided under AMS-I.F.

Review of the submission resulted into the following values for this standardized baseline:

Table 1. Grid Emission Factors for Central Grid of The Gambia

Parameter	SI Unit	Description	Value
EF_{grid,CM,y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the project electricity system applicable to the wind and solar power generation-project activities	0.697
EF_{grid,CM,y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the project electricity system applicable to all project activities other than wind and solar for the first crediting period	0.682
EF_{grid,CM,y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the project electricity system applicable to all project activities other than wind and solar power generation project activities for the second and third crediting period	0.666
EF_{grid,BM,y}	tCO ₂ /MWh	Build margin CO ₂ emission factor for the project electricity system	0.651
EF_{grid,OM,y}	tCO ₂ /MWh	Operating margin CO ₂ emission factor for the project electricity system	0.713

Table 2. Emission Factor for six regional mini-grids of The Gambia

Mini-grids	Emission Factor tCO ₂ /MWh
Essau	0.8
Kerewan	
Farafenni	
Kaur	
Bansang	
Basse	

Recommendation to the Board:

- To approve the draft standardized baseline
- Not to approve the draft standardized baseline

Reasons for not approving the proposed standardized baseline:
Not applicable
Any other issues arising from the review of the proposed standardized baseline:
Not applicable

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
02.0	1 December 2013	<p>The document title has changed from “CDM recommendation form for proposed standardized baselines” (F-CDM-PSB-REC) to “Proposed standardized baseline recommendation submission form” (CDM-PSBR-FORM).</p> <p>Revision to</p> <ul style="list-style-type: none"> • Reflect updated requirements in the “Procedure: Development, revision, clarification and update of standardized baselines” • Include an editorial improvement.
01.0	23 March 2012	Initial publication.

Decision Class: Regulatory
Document Type: Form
Business Function: Methodology
Keywords: standardized baselines