

ASB0034

Standardized baseline

Grid emission factor for West African Power Pool

Version 01.0



United Nations
Framework Convention on
Climate Change

TABLE OF CONTENTS		Page
1. INTRODUCTION		3
2. SCOPE, APPLICABILITY, AND ENTRY INTO FORCE.....		3
2.1. Scope and applicability		3
2.2. Entry into force and validity		3
3. NORMATIVE REFERENCES		3
4. DEFINITIONS.....		4
5. PARAMETERS AND VALUES.....		4

1. Introduction

1. This standardized baseline provides the values for grid emission factors (i.e. the carbon dioxide (CO₂) emission factors) for the West African Power Pool (WAPP) - interconnected electricity system of nine countries: Benin, Burkina Faso, Côte d'Ivoire, Ghana, Mali, Niger, Nigeria, Senegal, and Togo.

2. Scope, applicability, and entry into force

2.1. Scope and applicability

2. The scope of this standardized baseline covers the grid emission factor for the electricity system of WAPP. It was derived using the ex-ante data vintage option of the "Tool to calculate the emission factor for an electricity system" (hereinafter referred to as "the grid tool") based on 2011–2013 data vintage.
3. Clean development mechanism (CDM) project activities and programmes of activities (hereinafter referred to as project activities) can apply this standardized baseline under the following conditions:
 - (a) The project activity is implemented in any of the above-mentioned countries members of WAPP and is connected to the project electricity system;
 - (b) The CDM approved methodology that is applied to the project activity requires the determination of CO₂ emission factor(s) through the application of the grid tool;
 - (c) The project activity uses ex ante option for the grid emission factor as indicated in the tool i.e. no monitoring and recalculation of the emissions factor during the crediting period is required.
4. The latest approved and valid values of this standardized baseline are the only values of the CO₂ emission factor(s) that shall be applied for the CDM project electricity system in the WAPP member countries.

2.2. Entry into force and validity

5. This standardized baseline enters into force upon adoption by the CDM Executive Board on 27 February 2017. This standardized baseline is valid from 27 February 2017 to 26 February 2020.

3. Normative references

6. This standardized baseline is based on the proposed new standardized baseline PSB0033 "Grid emission factor for West African Power Pool" submitted by the designated national authority (DNA) of Republic of Togo.
7. This standardized baseline is derived from version 05.0 of the grid tool.
8. For more information regarding proposed new standardized baselines as well as their consideration by the CDM Executive Board, please refer to:
<http://cdm.unfccc.int/methodologies/standard_base/index.html>.

4. Definitions

9. **Project electricity system** - the spatial extent of the power plants that are physically connected through transmission and distribution lines to supply electricity to the WAPP - interconnected electricity system of nine countries: Benin, Burkina Faso, Côte d'Ivoire, Ghana, Mali, Niger, Nigeria, Senegal and Togo.
10. The definitions contained in the Glossary of CDM terms shall apply.
11. The definitions contained in the tool shall apply.

5. Parameters and values

12. This standardized baseline provides values for the parameters mentioned in table 1.

Table 1. Grid emission factors for the project electricity system of the WAPP

Parameter	Unit	Description	Applicable project types	Applicable values		
				First crediting period	Second crediting period	Third crediting period
<i>EF_{grid,OM,y}</i>	tCO ₂ /MWh	Operating margin CO ₂ emission factor for the project electricity system	All project activities	0.559		
<i>EF_{grid,BM,y}</i>	tCO ₂ /MWh	Build margin CO ₂ emission factor for the project electricity system	All project activities	0.565		
<i>EF_{grid,CM,y}</i>	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the project electricity system	Wind and solar power generation project activities	0.561		
<i>EF_{grid,CM,y}</i>	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the project electricity system	All project activities except wind and solar power generation project activities	0.562	0.563	0.563

- - - - -

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
01.0	27 February 2017	Initial publication. This standardized baseline is approved by CDM Executive Board in accordance with the “Procedure for development, revision, clarification and update of standardized baselines” (CDM-EB63-A28-PROC).

Decision Class: Regulatory
Document Type: Standard
Business Function: Methodology
Keywords: electric power transmission, grid emission factors, standardized baselines
