

ASB0009

Standardized baseline

Emission factors for central grid and regional mini-grids of The Gambia

Version 01.0



United Nations
Framework Convention on
Climate Change

| TABLE OF CONTENTS | Page |
|---|-------------|
| 1. INTRODUCTION | 3 |
| 2. SCOPE, APPLICABILITY, ENTRY INTO FORCE AND VALIDITY | 3 |
| 2.1. Scope..... | 3 |
| 2.2. Applicability | 3 |
| 2.3. Entry into force..... | 3 |
| 2.4. Validity | 4 |
| 3. NORMATIVE REFERENCES | 4 |
| 4. DEFINITIONS | 4 |
| 5. PARAMETERS AND VALUES..... | 4 |

1. Introduction

1. This standardized baseline provides the values of the carbon dioxide (CO₂) emission factors for the central grid and six independent regional mini-grids in The Gambia using data vintage for 2010–2012.

2. Scope, applicability, entry into force and validity

2.1. Scope

2. The scope of this standardized baseline includes clean development mechanism (CDM) projects in the Republic of The Gambia.

2.2. Applicability

3. This standardized baseline is applicable to CDM projects in the Republic of The Gambia.
4. CDM project activities can apply this standardized baseline under the following conditions:
 - (a) The project activity is connected either to the central grid or any of the six regional mini-grids;
 - (b) The project activity applies a CDM approved methodology that requires:
 - (i) The determination of CO₂ emission factor(s) through the application of the “Tool to calculate the emission factor for an electricity system (version 04.0)” (hereinafter referred to as “the tool”); or
 - (ii) The project activity applies AMS-I.F “Renewable electricity generation for captive use and mini-grid (version 2.0)” (hereinafter referred to as “AMS-I.F”) or any other relevant small-scale CDM approved methodology that refers to AMS-I.F for determination of CO₂ emission factor for the mini-grid system, in order to determine the baseline emissions, project emissions and/or leakage emissions.
5. The latest approved and valid values of this standardized baseline shall be applied by the project participants as per table 1 and table 2 below. The values of table 1 apply to project activities connected to the central grid of The Gambia. The values of table 2 apply to project activities connected to regional mini-grids of The Gambia. However, project participants who do not wish to use the latest approved and valid values of this standardized baseline may estimate the grid emission factor for their CDM project, using the latest version of the tool or AMS-I.F as applicable.

2.3. Entry into force

6. This standardized baseline shall enter into force immediately upon adoption by the CDM Executive Board on 27 April 2015.

2.4. Validity

7. The values shown in tables 1 and 2 below are valid three years from the date of adoption of the standardized baseline by the CDM Executive Board.
8. The latest approved version of the tool and AMS-I.F shall be used to update the standardized baseline.

3. Normative references

9. This standardized baseline is based on the proposed new standardized baseline PSB0026 "Emission factors for the electricity grid systems in The Gambia" submitted by the designated national authority of The Gambia.
10. The emission factor of the central grid is developed in accordance with the tool (version 4).
11. The emission factors of the six independent regional mini-grids are developed in accordance with the small-scale methodology AMS-I.F (version 2).
12. 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>.
13. This standardized baseline provides the ex ante values of the CO₂ emission factors for the central grid and the regional mini-grids of The Gambia.

4. Definitions

14. The definitions contained in the Glossary of CDM terms shall apply.
15. For the central grid, the definitions contained in the latest version of the tool shall apply.
16. For mini-grids, the definitions contained in AMS-I.F shall apply.

5. Parameters and values

17. This standardized baseline provides emission factor values for the central grid and mini-grids as follows:

Table 1. Grid emission factors for the 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 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 the six independent regional mini-grids of The Gambia

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

Document information

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