

ASB0050-2020

Standardized baseline

Grid Emission Factor for the Republic of Kenya

Version 01.0



United Nations
Framework Convention on
Climate Change

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1. Introduction

1. This standardized baseline provides the values of the CO₂ emission factors for the national interconnected electricity system of Kenya (hereinafter referred to as “national grid of Kenya”).

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 national grid of Kenya. It was derived using the ex-ante data vintage option of the “TOOL07: Tool to calculate the emission factor for an electricity system”, version 7.0 (hereinafter referred to as “the grid tool”) based on 2017 – 2019 data vintage.
3. A Clean development mechanism (CDM) project activity and programmes of activity (hereinafter referred as project activity) may apply this standardized baseline under the following conditions:
 - (a) The project activity is implemented in Kenya and is connected to the national grid of Kenya;
 - (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 the ex-ante options for both the operating margin and build margin grid emissions factors, as described in the grid tool, and therefore no monitoring or recalculation of the emission factor during the crediting period is required.
4. Project participants who do not wish to use this standardized baseline may alternatively estimate their own values for the grid emission factor, by applying the latest applicable version of the grid tool.

2.2. Entry into force and validity

5. This standardized baseline enters into force upon adoption by the CDM Executive Board on 29 December 2020. This standardized baseline is valid from 29 December 2020 to 28 December 2023.

3. Normative references

6. This standardized baseline is based on the proposed new standardized baseline PSB0055 “Grid emission factor for the Republic of Kenya” submitted by the designated national authority (DNA) of Kenya.
7. This standardized baseline is derived from version 07.0 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 national grid of Kenya.
10. The definitions contained in the Glossary of CDM terms shall apply.
11. The definitions contained in the grid tool shall apply.

5. Parameters and values

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

Table 1. Grid emission factors for the national grid of Kenya

Parameter	Unit	Description	Applicable project types	Applicable values		
				First crediting period	Second crediting period	Third crediting period
$EF_{grid, OM, y}$	tCO ₂ /MWh	Operating margin CO ₂ emission factor for the national grid of Kenya	All project activities	0.4999		
$EF_{grid, BM, y}$	tCO ₂ /MWh	Build margin CO ₂ emission factor for the national grid of Kenya	All project activities	0.1350		
$EF_{grid, CM, y}$	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of Kenya	All project activities except wind and solar power generation	0.3174	0.2262	
$EF_{grid, CM, y}$	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of Kenya	Wind and solar power generation project activities	0.4087		

Document information

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01.0	29 December 2020	Initial publication.

<i>Version</i>	<i>Date</i>	<i>Description</i>
		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).

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