

ASB0054-2022

Standardized baseline

Grid Emission Factor for the national power grid of Uganda

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 Uganda (hereinafter referred to as “national power grid of Uganda”).

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 power grid of Uganda. 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 Uganda and is connected to the national power grid of Uganda;
 - (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 10 August 2022. This standardized baseline is valid from 10 August 2022 to 09 August 2025.

3. Normative references

6. This standardized baseline is based on the proposed new standardized baseline PSB0058 “Grid emission factor for the national power grid of Uganda” submitted by the designated national authority (DNA) of Uganda.
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. The definitions contained in the Glossary of CDM terms shall apply.
10. The definitions contained in the grid tool shall apply.

5. Parameters and values

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

Table 1. Grid emission factors for the national power grid of Uganda

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 power grid of Uganda	All project activities	0.2740		
EF_{grid, BM, y}	tCO ₂ /MWh	Build margin CO ₂ emission factor for the national power grid of Uganda	All project activities	0.0000 ¹		
EF_{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national power grid of Uganda	All project activities except wind and solar power generation	0.1370	0.0685	
EF_{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national power grid of Uganda	Wind and solar power generation project activities	0.2055		

Document information

Version	Date	Description
01.0	10 August 2022	Initial publication.

¹ The power units that comprise at least 20% of the system generation were used to calculate the build margin. Since all the power units were either hydro or solar, the build margin emission factor was zero.

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