

ASB0024

Standardized baseline

Grid emission factor for the Republic of Sudan

Version 01.0



United Nations
Framework Convention on
Climate Change

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1. Introduction

1. This standardized baseline provides the values for grid emission factors (i.e. the carbon dioxide (CO₂) emission factors) for the electricity system of the Republic of Sudan.

2. Scope, applicability, and entry into force

2.1. Scope and applicability

2. The scope of this standardized baseline covers the grid emission factors for the electricity system of the Republic of Sudan. It was derived using the ex ante data vintage option of the version 04.0 of the “Tool to calculate the emission factor for an electricity system” based on 2010–2012 data vintage.
3. Clean development mechanism (CDM) project activities and programmes of activities (hereinafter referred as project activities) can apply this standardized baseline under the following conditions:
 - (a) The project activity is implemented in the Republic of Sudan 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 “Tool to calculate the emission factor for an electricity system” (hereinafter referred to as “the 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. 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 tool.

2.2. Entry into force and validity

5. This standardized baseline enters into force upon adoption by the CDM Executive Board on 28 March 2016. This standardized baseline is valid from 28 March 2016 to 27 March 2019.

3. Normative references

6. This standardized baseline is based on the proposed new standardized baseline PSB0030 “Grid emission factor for the Republic of Sudan” submitted by the designated national authority (DNA) of the Republic of Sudan.
7. This standardized baseline is derived from version 4.0 of the 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 power grid of the Republic of Sudan.
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

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 project electricity system	All project activities	0.206	0.206	0.206
$EF_{grid,BM,y}$	tCO ₂ /MWh	Build margin CO ₂ emission factor for the project electricity system	All project activities	0.149	0.149	0.149
$EF_{grid,CM,y}$	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the project electricity system	Wind and solar power generation project activities	0.192	0.192	0.192
$EF_{grid,CM,y}$	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	0.178	0.164	0.164

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