

ASB0051-2021

Standardized baseline

Grid Emission Factor for Antigua and Barbuda

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 electric grid of mainland Antigua (hereinafter “electric grid of Antigua”) and for the electric grid of mainland Barbuda (hereinafter “electric grid of Barbuda”).

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 electric grid of Antigua and for the electric grid of Barbuda. 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. 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 Antigua and Barbuda and is connected either to the electric grid of Antigua or to the electric grid of Barbuda;
 - (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 26 March 2021. This standardized baseline is valid from 26 March 2021 to 25 March 2024.

3. Normative references

6. This standardized baseline is based on the proposed new standardized PSB0031 “Grid emission factor (GEF) for Antigua and Barbuda” submitted by the designated national authority (DNA) of Antigua and Barbuda.
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 and in table 2.

Table 1. Grid emission factor for the electric grid of Antigua

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 electric grid of Antigua	All project activities	0.62		
$EF_{grid, BM, y}$	tCO ₂ /MWh	Build margin CO ₂ emission factor for the electric grid of Antigua	All project activities	0 (simplified combined margin was applied, where the weight of the BM is equal to zero)		
$EF_{grid, CM, y}$	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the electric grid of Antigua	All project activities except wind and solar power generation	0.62	0.62	
$EF_{grid, CM, y}$	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the electric grid of Antigua	Wind and solar power generation project activities	0.62		

Table 2. Grid emission factor for the electric grid of Barbuda

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 electric grid of Barbuda	All project activities	0.96		
$EF_{grid, BM, y}$	tCO ₂ /MWh	Build margin CO ₂ emission factor for the electric grid of Barbuda	All project activities	0 (simplified combined margin was applied, where the weight of the BM is equal to zero)		

Parameter	Unit	Description	Applicable project types	Applicable values		
				First crediting period	Second crediting period	Third crediting period
$EF_{grid, CM, y}$	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the electric grid of Barbuda	All project activities except wind and solar power generation	0.96	0.96	
$EF_{grid, CM, y}$	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the electric grid of Barbuda	Wind and solar power generation project activities	0.96		

Document information

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