

## **ASB0005**

# Standardized baseline

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## Grid emission factor for the Belize national power grid

Version 01.0

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## **1. Introduction**

1. This standardized baseline provides the values of the carbon dioxide (CO<sub>2</sub>) emission factors for the electricity system of Belize.

## **2. Definitions**

2. The definitions contained in the latest version of the “Tool to calculate the emission factor for an electricity system” shall apply.
3. For the purpose of this standardized baseline, the following definitions apply:
  - (a) Project electricity system – the spatial extent of the power plants that are physically connected through transmission and distribution lines to supply electricity to the Belize national power grid;
  - (b) Connected electricity system – the electricity system of Mexico.

## **3. Scope, applicability, entry into force and validity**

### **3.1. Scope**

4. This standardized baseline is based on the proposed new standardized baseline PSB0006 “Grid Emission Factor for Belize” submitted by the designated national authority (DNA) of Belize.
5. This standardized baseline is derived from version 03.0.0 of the “Tool to calculate the emission factor for an electricity system” (hereinafter referred to as “the tool”).
6. For more information regarding proposed new standardized baselines as well as their consideration by the Executive Board of the clean development mechanism (CDM) please refer to:  
<[http://cdm.unfccc.int/methodologies/standard\\_base/index.html](http://cdm.unfccc.int/methodologies/standard_base/index.html)>.
7. This standardized baseline provides the values of the baseline CO<sub>2</sub> emission factors for the project electricity system for the determination of baseline emissions, project emissions and leakage emissions. The CO<sub>2</sub> emission factors are:
  - (a) Combined margin emission factor;
  - (b) Operating margin emission factor;
  - (c) Build margin emission factor.

### 3.2. Applicability

8. This standardized baseline is applicable to CDM projects in Belize.
9. CDM project activities can apply this standardized baseline under the following conditions:
  - (a) The project activity is connected to the project electricity system;
  - (b) The CDM-approved methodology that is applied to the project activities requires the determination of CO<sub>2</sub> emission factor(s) for the project electricity system through the application of the tool, for the determination of baseline emissions, project emissions and leakage emissions; and
  - (c) When applying the values of this standardized baseline to CDM projects on an ex ante basis the latest approved values with respect to table 1 below shall be used for the calculation of emission reduction for the entire first, or entire second or entire third crediting period.
10. Project participants who do not wish to use the latest approved and valid values of this standardized baseline may independently estimate for their CDM project the grid emission factor of the project electricity system defined by this standardized baseline using the latest version of the “Tool to calculate the emission factor for an electricity system”.

### 3.3. Entry into force

11. This standardized baseline shall enter into force immediately upon its adoption by the CDM Executive Board on 16 September 2014.

### 3.4. Validity of this standardized baseline

12. The values shown in table 1 below are valid for three years from the date of adoption of the standardized baseline by the CDM Executive Board.
13. The latest available approved version of the tool shall be used to update the standardized baseline.

## 4. Parameters and values

14. This standardized baseline provides values for the following parameters:

**Table 1. Grid emission factors for CDM project activities**

Parameter	SI Unit	Description	Value
EF <sub>grid,CM,y</sub>	tCO <sub>2</sub> /MWh	Combined margin CO <sub>2</sub> emission factor for the project electricity system applicable to the project activities of wind and solar power generation	0.2282
EF <sub>grid,CM,y</sub>	tCO <sub>2</sub> /MWh	Combined margin CO <sub>2</sub> emission factor for the project electricity system applicable to all project activities other than wind and solar power generation project activities for the first crediting period	0.1521

Parameter	SI Unit	Description	Value
$EF_{grid,CM,y}$	tCO <sub>2</sub> /MWh	Combined margin CO <sub>2</sub> 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	0.0761
$EF_{grid,BM,y}$	tCO <sub>2</sub> /MWh	Build margin CO <sub>2</sub> emission factor for the project electricity system	0.0
$EF_{grid,OM,y}$	tCO <sub>2</sub> /MWh	Operating margin CO <sub>2</sub> emission factor for the project electricity system	0.3042

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### Document information

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01.0	16 September 2014	Initial publication. This standardized baseline is approved by the CDM Executive Board in accordance of <i>Procedure for the submission and consideration of standardized baselines</i> , version 02.0 (CDM-EB63-A28-PROC).

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