ASB0007

Standardized baseline

Grid emission factor for the electricity system of the Republic of Armenia

Version 01.0

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1. Introduction

1. This standardized baseline provides the values of the carbon dioxide (CO_2) emission factors for the electricity system of the Republic of Armenia.

2. Scope, applicability, and entry into force

2.1. Scope

2.2. The scope of this standardized baseline includes the clean development mechanism (CDM) projects in the Republic of Armenia.

2.3. Applicability

1. This standardized baseline is applicable to clean development mechanism (CDM) projects in the Republic of Armenia.

2. 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 activity requires the determination of CO_2 emission factor(s) through the application of the "Tool to calculate the emission factor for an electricity system" (version 04.0) (hereinafter referred to as “the tool"), for the determination of baseline emissions, project emissions and/or leakage emissions;

   (c) When applying the values of this standardized baseline to a CDM project activity, the requirements below are to be followed:

      (i) If the CDM project activity uses the ex ante option of data vintage, as per the tool, the latest approved values of table 1 below shall be used for the calculation of emission reduction for the entire first, or entire second or entire third crediting period;

      (ii) If the CDM project activity uses the ex post option of data vintage as per the tool, the latest approved values of table 2 below valid at the end of the monitoring period shall be used for the calculation of emission reduction for that monitoring period. As per the tool, ex post values are required to be updated annually; however, for ex post values approved under this standardized baseline, the validity as prescribed in paragraph 6 below applies.

3. Project participants who do not wish to use the latest approved and valid values of this standardized baseline may estimate the grid emission factor for their CDM project, using the latest applicable version of the tool.

2.4. Entry into force

4. This standardized baseline shall enter into force immediately upon adoption by the CDM Executive Board on 08 January 2015.

2.5. Validity of this standardized baseline

5. The values shown in tables 1 and 2 below are valid for three years from the date of adoption of the standardized baseline by the CDM Executive Board.

6. The latest approved version of the tool shall be used to update the standardized baseline.

3. Normative references

7. This standardized baseline is based on the proposed new standardized baseline PSB0011 "Calculation of Grid Emission Factor for the Electricity System of the Republic of Armenia" submitted by the designated national authority (DNA) of the Republic of Armenia.

8. This standardized baseline is derived from the tool.

9. 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>.

10. This standardized baseline provides the values of the CO_2 emission factors for the project electricity system for the determination of baseline emissions, project emissions and leakage. The CO_2 emission factors are:

    (a) Operating margin emission factor;

    (b) Build margin emission factor; and

    (c) Combined margin emission factor.

4. Definitions

11. The definitions contained in the Glossary of CDM terms shall apply.

12. The definitions contained in version 04.0 of the tool shall apply.

13. For the purpose of this standardized baseline, the following definitions apply:

    (a) Grid/Project electricity system: the spatial extent of the power plants that are physically connected through transmission and distribution lines to supply electricity to the integrated electricity system of the Republic of Armenia;

    (b) Connected electricity systems of the Armenian power system: the connected electricity systems of Georgia, Islamic Republic of Iran and Turkey.

5. Parameters, values and additionality criterion

14. This standardized baseline provides ex ante values based on the data of years 2010 to 2012, and ex post values based on the data of year 2012 for the parameters mentioned in tables 1 and 2 below.

Table 1. Grid emission factors derived for use by a CDM project activity that uses the ex ante option of the "Tool to calculate the emission factor for an electricity system (version 04.0)"

Parameter	SI unit	Description	Applicable crediting periods	Applicable project types	Value
$EF_{grid,OM-adj,y}$	tCO_2/MWh	Operating margin CO_2 emission factor for the project electricity system	First, second and third crediting periods	All project activities	0.440
$EF_{grid,BM,y}$	tCO_2/MWh	Build margin CO_2 emission factor for the project electricity system	First, second and third crediting periods	All project activities	0.416
$EF_{grid,CM,y}$	tCO_2/MWh	Combined margin CO_2 emission factor for the project electricity system	First, second and third crediting periods	Wind and solar power generation project activities	0.434
$EF_{grid,CM,y}$	tCO_2/MWh	Combined margin CO_2 emission factor for the project electricity system	First crediting period	All project activities except wind and solar power generation	0.428
$EF_{grid,CM,y}$	tCO_2/MWh	Combined margin CO_2 emission factor for the project electricity system	Second and third crediting periods	All project activities except wind and solar power generation	0.422

Table 2. Grid emission factors derived for use by a CDM project activity that uses the ex post option of the "Tool to calculate the emission factor for an electricity system (version 04.0)"

Parameter	SI unit	Description	Applicable crediting periods	Applicable project types	Value
$EF_{grid,OM-adj,y}$	tCO_2/MWh	Operating margin CO_2 emission factor for the project electricity system	First, second and third crediting periods	All project activities	0.473

Parameter	SI unit	Description	Applicable crediting periods	Applicable project types	Value
$EF_{grid,BM,y}$	tCO_2/MWh	Build margin CO_2 emission factor for the project electricity system	First, second and third crediting periods	All project activities	0.416
$EF_{grid,CM,y}$	tCO_2/MWh	Combined margin CO_2 emission factor for the project electricity system	First, second and third crediting periods	Wind and solar power generation project activities	0.459
$EF_{grid,CM,y}$	tCO_2/MWh	Combined margin CO_2 emission factor for the project electricity system	First crediting period	All project activities except wind and solar power generation	0.444
$EF_{grid,CM,y}$	tCO_2/MWh	Combined margin CO_2 emission factor for the project electricity system	Second and third crediting periods	All project activities except wind and solar power generation	0.430

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Document information

Version	*Date*	*Description*
01.0	08 January 2015	Initial publication. This standardized baseline is approved by the 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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