

ASB0039-2018

Standardized baseline

Grid emission factor for Mongolia's national electricity grid

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 Mongolia's national electricity grid.

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 Mongolia's national electricity grid. It was derived using the ex-ante data vintage option of the "TOOL07: Tool to calculate the emission factor for an electricity system" (hereinafter referred to as "the grid tool") based on 2013–2015 data vintage.
3. Clean development mechanism (CDM) project activities and programmes of activities (hereinafter referred to as project activities) can apply this standardized baseline under the following conditions:
 - (a) The project activity is implemented in Mongolia and is connected to the Mongolia's national electricity grid;
 - (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 17 July 2018. This standardized baseline is valid from 17 July 2018 to 16 July 2021.

3. Normative references

6. This standardized baseline is based on the proposed new standardized baseline PSB0041 "Grid emission factor for Mongolia's national electricity grid" submitted by the designated national authority (DNA) of Mongolia.
7. This standardized baseline is derived from version 06.0 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. **Project electricity system** - the spatial extent of the power plants that are physically connected through transmission and distribution lines to supply electricity to Mongolia's national electricity grid, which is composed of five subsystems: Central Energy System (CES), Western Energy System (WES), Eastern Energy System (EES), Altai-Uliastai Energy System (AUES) and Southern (Gobi) Energy system (SES).
10. The definitions contained in the Glossary of CDM terms shall apply.
11. The definitions contained in the grid tool shall apply.

5. Parameters and values

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

Table 1. Grid emission factors for Mongolia's national electricity grid

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 Mongolia's national electricity grid	All project activities	0.884	0.884	0.884
EF_{grid, BM, y}	tCO ₂ /MWh	Build margin CO ₂ emission factor for Mongolia's national electricity grid	All project activities	0.833	0.833	0.833
EF_{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for Mongolia's national electricity grid	All project activities except wind and solar power generation	0.859	0.846	0.846
EF_{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for Mongolia's national electricity grid	Wind and solar power generation project activities	0.871	0.871	0.871

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Document information

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