



**Proposed standardized baseline recommendation form
(Version 02.1)**

**INFORMATION TO BE COMPLETED BY THE TWO SELECTED MEMBERS OF THE PANEL/WORKING GROUP
OR THE WHOLE PANEL/WORKING GROUP**

Title of the proposed standardized baseline:	Cape Verde Standardized baseline for the Power Sector
Reference number of the proposed standardized baseline:	PSB0052
Name(s) of the Party or Parties to which the proposed standardized baseline applies:	Republic of Cape Verde
DNA submitting the proposed standardized baseline:	DNA of Cape Verde
Name(s) of the proponent(s) of the proposed standardized baseline: <i>(Parties, project participants, international industry organizations or admitted observer organizations)</i>	<p>Ministério da Agricultura e Ambiente (Ministry of Agriculture and Environment) Cape Verde</p> <p>Developed by - Secretariat of the Ecowas Centre for Renewable Energy and Energy Efficiency (i.e. ECREEE)</p> <p>Under assistance of - UNFCCC CDM Regional Collaboration Centre in Lome, Togo</p> <p>In collaboration with - Cape Verde Ministry of Industry, Trade and Energy, national utility company Electra, AEB, and private renewable companies Cabeolica</p>
History of the submission:	<p>1) 01/10/2019: first submission was received 17/10/2019: initial assessment was finalized 21/10/2019: its assessment was finalized</p> <p>2) 18/11/2020: second submission was received 26/01/2021: its assessment was finalized</p> <p>3) 22/02/2021: third submission was received 26/02/2021: its QA/QC assessment was finalized</p>
Date (DD/MM/YYYY) when the recommendation is completed:	26/02/2021
Approach(es) for the development of the proposed standardized baseline:	
<input type="checkbox"/> The approach contained in the “Guidelines for the establishment of sector specific standardized baselines” <input type="checkbox"/> A methodological approach contained in an approved, proposed new or revised baseline and monitoring methodology (please specify below the exact reference (number, title and version) of the relevant methodology _____) <input checked="" type="checkbox"/> A methodological approach contained in an approved, proposed new or revised methodological tool (TOOL07: Tool to calculate the emission factor for and electricity system, version 07.0) <input type="checkbox"/> The approach contained in the “Guideline: Establishment of standardized baselines for afforestation and reforestation project activities under the CDM”	
Important conditions under which the proposed standardized baseline is applicable:	

The scope of this standardized baseline covers the grid emission factor for 9 inhabited islands of the Republic of Cape Verde. For São Vicente, Sal, Santiago, Boavista and Santo Antão islands combined margin emission factor 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 2015 – 2017 data vintage. The data vintage applied complies with provisions from the standard “Determining coverage of data and validity of standardized baselines”, version 2.0.

For Maio, Fogo and Brava island combined margin emission factor is determined based on a simplified approach provided under paragraph 94(b) and for São Nicolau island it is based on simplified approach provided under paragraph 95(b) of the grid tool.

A Clean development mechanism (CDM) project activity and programmes of activity (hereinafter referred as project activity) may apply this standardized baseline under the following conditions:

- (a) The project activity is implemented in one of the 9 islands of Cape Verde, i.e. São Vicente, Sal, Santiago, Boavista, Santo Antão, Maio, Fogo, Brava and São Nicolau;
- (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.

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.

Summary description of the proposed standardized baseline:

This standardized baseline provides values for the parameters mentioned in Table 1 to Table 9 for each of the island of Cape Verde.

Table 1. Grid emission factors for the national grid of São Vicente island, Cape Verde

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 national grid of São Vicente island, Cape Verde	All project activities	0.69		
EF _{grid, BM, y}	tCO ₂ /MWh	Build margin CO ₂ emission factor for the national grid of São Vicente island, Cape Verde	All project activities	0.51		
EF _{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of São Vicente island, Cape Verde	All project activities except wind and solar power generation	0.60	0.55	
EF _{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of São Vicente island, Cape Verde	Wind and solar power generation project activities	0.64		

Table 2. Grid emission factors for the national grid of Sal island, Cape Verde

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 national grid of Sal island, Cape Verde	All project activities	0.72		
EF _{grid, BM, y}	tCO ₂ /MWh	Build margin CO ₂ emission factor for the national grid of Sal island, Cape Verde	All project activities	0.49		
EF _{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of Sal island, Cape Verde	All project activities except wind and solar power generation	0.60	0.55	
EF _{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of Sal island, Cape Verde	Wind and solar power generation project activities	0.66		

Table 3. Grid emission factors for the national grid of Santiago island, Cape Verde

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 national grid of Santiago island, Cape Verde	All project activities	0.65		
EF _{grid, BM, y}	tCO ₂ /MWh	Build margin CO ₂ emission factor for the national grid of Santiago island, Cape Verde	All project activities	0.55		
EF _{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of Santiago island, Cape Verde	All project activities except wind and solar power generation	0.60	0.58	
EF _{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of Santiago island, Cape Verde	Wind and solar power generation project activities	0.63		

Table 4. Grid emission factors for the national grid of Boavista island, Cape Verde

Parameter	Unit	Description	Applicable project types	Applicable values		
				First crediting	Second crediting	Third crediting

				period	period	period
EF_{grid, OM, y}	tCO ₂ /MWh	Operating margin CO ₂ emission factor for the national grid of Boavista island, Cape Verde	All project activities	0.76		
EF_{grid, BM, y}	tCO ₂ /MWh	Build margin CO ₂ emission factor for the national grid of Boavista island, Cape Verde	All project activities	0.60		
EF_{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of Boavista island, Cape Verde	All project activities except wind and solar power generation	0.68	0.64	
EF_{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of Boavista island, Cape Verde	Wind and solar power generation project activities	0.72		

Table 5. Grid emission factors for the national grid of Santo Antão island, Cape Verde

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 national grid of Santo Antão island, Cape Verde	All project activities	0.71		
EF_{grid, BM, y}	tCO ₂ /MWh	Build margin CO ₂ emission factor for the national grid of Santo Antão island, Cape Verde	All project activities	0.68		
EF_{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of Santo Antão island, Cape Verde	All project activities except wind and solar power generation	0.69	0.69	
EF_{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of Santo Antão island, Cape Verde	Wind and solar power generation project activities	0.70		

Table 6. Grid emission factors for the national grid of Maio island, Cape Verde

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 national grid of Maio island, Cape Verde	All project activities	0.79		
EF_{grid, BM, y}	tCO ₂ /MWh	Build margin CO ₂ emission factor for the national grid of Maio island, Cape Verde	All project activities	0.58		
EF_{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of Maio island, Cape Verde	All project activities except wind and solar power generation	0.69	0.63	
EF_{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of Maio island, Cape Verde	Wind and solar power generation project activities	0.74		

Table 7. Grid emission factors for the national grid of Fogo island, Cape Verde

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 national grid of Fogo island, Cape Verde	All project activities	0.79		
EF_{grid, BM, y}	tCO ₂ /MWh	Build margin CO ₂ emission factor for the national grid of Fogo island, Cape Verde	All project activities	0.58		
EF_{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of Fogo island, Cape Verde	All project activities except wind and solar power generation	0.69	0.63	
EF_{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of Fogo island, Cape Verde	Wind and solar power generation project activities	0.74		

Table 8. Grid emission factors for the national grid of Brava island, Cape Verde

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 national grid of Brava island, Cape Verde	All project activities	0.79		

EF_{grid, BM, y}	tCO ₂ /MWh	Build margin CO ₂ emission factor for the national grid of Brava island, Cape Verde	All project activities	0.58		
EF_{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of Brava island, Cape Verde	All project activities except wind and solar power generation	0.69	0.63	
EF_{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of Brava island, Cape Verde	Wind and solar power generation project activities	0.74		

Table 9. Grid emission factors for the national grid of São Nicolau island, Cape Verde

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 national grid of São Nicolau island, Cape Verde	All project activities	0.79		
EF_{grid, BM, y}	tCO ₂ /MWh	Build margin CO ₂ emission factor for the national grid of São Nicolau island, Cape Verde	All project activities	0.58		
EF_{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of São Nicolau island, Cape Verde	All project activities except wind and solar power generation	0.69	0.63	
EF_{grid, CM, y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the national grid of São Nicolau island, Cape Verde	Wind and solar power generation project activities	0.74		

Recommendation to the Board:

- To approve the proposed standardized baseline
- Not to approve the proposed standardized baseline

Reasons for not approving the proposed standardized baseline (if any):

Not applicable

Any other issues arising from the review of the proposed standardized baseline:

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
02.1	1 September 2015	Revision to include an editorial improvement.
02.0	1 December 2013	<p>The document title has changed from “CDM recommendation form for proposed standardized baselines” (F-CDM-PSB-REC) to “Proposed standardized baseline recommendation submission form” (CDM-PSBR-FORM).</p> <p>Revision to:</p> <ul style="list-style-type: none">• Reflect updated requirements in the “Procedure: Development, revision, clarification and update of standardized baselines”;• Include an editorial improvement.
01.0	23 March 2012	Initial publication.

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