

Proposed standardized baseline recommendation form (Version 02.0)

INFORMATION TO BE COMPLETED BY THE TWO SELECTED MEMBERS OF THE PANEL/ WORKING GROUP OR THE PANEL/WORKING GROUP				
Title of the proposed standardized baseline:	Cape Verde Grid Emission Factor			
Reference number of the proposed standardized baseline:	PSB007			
Name(s) of the Party or Parties to which the proposed standardized baseline applies:	Republic of Cape Verde			
DNA submitting the proposed standardized baseline:	Ministério do Ambiente, Habitação e Ordenamento do Território (Ministry of Environment, Housing and Land Management), Cape Verde			
Name(s) of the proponent(s) of the proposed standardized baseline:	Secretariat of the Ecowas Centre for Renewable Energy and Energy Efficiency (i.e. ECREEE)			
(Parties, project participants, international industry organizations)	Under strong assistance of			
	UNFCCC CDM Regional Collaboration Centre in Lome, Togo			
	In collaboration with			
	Cape Verde Ministry of Tourism, Industry and Energy, national utility company Electra, and private renewable company Cabeolica.			
History of the submission:	1) 28/11/2013: first submission was received			
	2) 12/03/2014: second submission was received			
	3) 12/08/2014: third submission was received			
	4) 02/10/2014: fourth submission was received			
	5) 30/06/2015: fifth submission was received			
Date (DD/MM/YYYY) when the recommendation is completed:	09/12/2015			
Approach for the development of the proposed sta	indardized baseline:			
\boxtimes The "Guidelines for the establishment of sector s	pecific standardized baselines" (Version 2.0)			
A methodological approach contained in an approved baseline and monitoring methodology (Please specify below the exact reference (number, title and version) of the approved methodology				
A methodological approach contained in an appr emission factor for an electricity system" (version	A methodological approach contained in an approved methodological tool "Tool to calculate the			
 Enclose on the enclosed of the en				
Important conditions under which the proposed st	andardized baseline is applicable:			

Clean development mechanism (CDM) project activities or programmes of activities (hereinafter referred to as project activities) can apply this standardized baseline under the following conditions:

- The project activity is implemented on any of the following islands of Cape Verde and is connected to the project electricity system;
 - a) São Nicolau;
 - b) Boa Vista;
 - c) Maio;
 - d) Fogo;
 - e) Brava
 - f) Sal,
 - g) Sao Vicente,
 - h) Santo Antao, and
 - i) Santiago
- ii. The project activity applies small-scale CDM methodologies that require a grid emission factor.

Summary description of the proposed standardized baseline:

- The scope of this standardized baseline covers the baseline emission factors and the positive list of renewable electricity generation technologies.
- 2. The approach from the "Guidelines for the establishment of sector specific standardized baselines" (version 02.0) (hereinafter referred to as the SB guideline) with default threshold value of 80 per cent is used for the determination of baseline emission factors in the case of five out of nine islands i.e. São Nicolau, Boa Vista, Maio, Fogo and Brava.
- For the remaining four islands Sal, Sao Vicente, Santo Antao and Santiago "Tool to calculate the emission factor for an electricity system" (hereinafter referred to as the grid tool) is used to determine baseline emission factors (i.e. operating margin, build margin and combined margin emission factor).
- 4. The positive list of technologies is determined using the "Methodological tool: Demonstration of additionality of small-scale project activities" and the "Methodological tool: Demonstration of additionality of microscale project activities" prescribed under small-scale CDM methodologies.
- Review of the submissions resulted into the following grid emission factor values (See Table 1 to Table 5 below) and the positive list of renewable electricity generation technologies (See Table 6 below):

Table 1: Emission factor for grid electricity system on the island of Sal, Cape Verde

				A	pplicable valu	les
Parameter	Unit	Description	Applicable project types	First crediting period	Second crediting period	Third crediting period

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EF _{grid,OM,y}	tCO ₂ /MWh	Operating margin CO ₂ emission factor for the project electricity system	All project activities		0.595	
EF _{grid,BM,y}	tCO₂/MWh	Build margin CO ₂ emission factor for the project electricity system	All project activities		0.0	
EF _{grid,CM,y}	tCO₂/MWh	Combined margin CO ₂ emission factor for the project electricity system	Wind and solar power generation project activities		0.446	
EF _{grid,CM,y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the project electricity system	All project activities except wind and solar power generation project activities	0.297	0.149	0.149

Table 2: Emission factor for grid electricity system on the island of Sao Vicente, Cape Verde

				Applicable values		
Parameter	Unit	Description	Applicable project types	First crediting period	Second crediting period	Third crediting period
EF _{grid,OM,y}	tCO₂/MWh	Operating margin CO ₂ emission factor for the project electricity system	All project activities		0.587	
EF _{grid,BM,y}	tCO ₂ /MWh	Build margin CO ₂ emission factor for the project electricity system	All project activities		0.0	
EF _{grid,CM,y}	tCO ₂ /MWh	Combined margin CO_2 emission factor for the project electricity system	Wind and solar power generation project activities		0.440	
EF _{grid,CM,y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the project electricity system	All project activities except wind and solar power generation project activities	0.294	0.147	0.147

Table 3: Emission factor for grid electricity system on the island of Santo Antao, Cape Verde

				Ap	plicable valu	les
Parameter	Unit	Description	Applicable project types	First crediting period	Second crediting period	Third crediting period
EF _{grid,OM,y}	tCO ₂ /MWh	Operating margin CO_2 emission factor for the project electricity system	All project activities		0.651	

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EF _{grid,BM,y}	tCO₂/MWh	Build margin CO ₂ emission factor for the project electricity system	All project activities		0.580	
EF _{grid,CM,y}	tCO ₂ /MWh	Combined margin CO_2 emission factor for the project electricity system	Wind and solar power generation project activities		0.634	
EF _{grid,CM,y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the project electricity system	All project activities except wind and solar power generation project activities	0.616	0.598	0.598

Table 4: Emission factor for grid electricity system on the island of Santiago, Cape Verde

				Applicable values		
Parameter	Unit	Description	Applicable project types	First crediting period	Second crediting period	Third crediting period
EF _{grid,OM,y}	tCO₂/MWh	Operating margin CO ₂ emission factor for the project electricity system	All project activities		0.573	
EF _{grid,BM,y}	tCO ₂ /MWh	Build margin CO ₂ emission factor for the project electricity system	All project activities		0.523	
EF _{grid,CM,y}	tCO₂/MWh	Combined margin CO ₂ emission factor for the project electricity system	Wind and solar power generation project activities		0.560	
EF _{grid,CM,y}	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the project electricity system	All project activities except wind and solar power generation project activities	0.548	0.536	0.536

Table 5: Emission factors for grid electricity systems of the Cape Verdean islands of São Nicolau,Boa Vista, Maio, Fogo, and Brava

No.	Island Baseline emission facto (tCO ₂ /MWh)	
1.	São Nicolau	0.744
2.	Boa Vista	0.629
3.	Maio	0.724
4.	Fogo	0.718

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			5.	Brava	0.670			
Table	e 6. Lis Ca	st of ren pe Verde	ewable elec e (positive l	ctricity generat ist)	ion technologies that are auto	omatically additional in		
		No.	Propos	sed technologie	95			
		1	Any gri of insta CDM n	Any grid connected renewable energy technology up to 5 MW of installed capacity that are included in approved small scale CDM methodologies				
		2	Solar p 15 MW	Solar photovoltaic or solar thermal electricity generation up to 15 MW of installed capacity				
		3	On-sho	On-shore wind power up to 15 MW of installed capacity				
Reco	ommenda	tion to th	ne Board:					
\boxtimes	To approv	ve the dra	ft standardi	zed baseline				
	Not to approve the draft standardized baseline							
Reas	Reasons for not approving the proposed standardized baseline:							
Any	Any other issues arising from the review of the proposed standardized baseline:							

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Document information

Version	Date	Description
02.0	1 December 2013	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).
		Revision to
		 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.
Decision Class: Regulatory Document Type: Form Business Function: Methodology Keywords: standardized baselines		