

Approved standardized baseline update recommendation form

(Version 01.0)

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

Title/Subject:	Request for update of ASB0034, version 01.0
Reference (number, title and version) of the approved standardized baseline to which the request for update is made:	ASB0034: Grid emission factor for West African Power Pool (version 01.0)
Reference number of the request for update:	ASU_006
DNA submitting the request for update:	Republic of Togo
Name(s) of the proponent of the proposed updated standardized baseline: (Parties, project participants, international industry organizations or admitted observer organizations)	Mr. Thiyu K. ESSOBIYOU Direction de l'Environnement 247, Rue des Nîmes B.P: 4825 Lomé-TOGO Tél:(+228) 22 21 33 21 Mobile: (+228) 90 91 96 77 E-mail: <u>denv_togo@yahoo.fr; essobiyou@hotmail.com;</u> julesazakpo7@gmail.com; julesazakpo@yahoo.fr
History of the submission:	 16/12/2020: first submission was received 18/12/2020: initial assessment was finalized 20/01/2021: Additional information was requested from the DNA via email. 05/02/2021: second submission was received 10/02/2021: its assessment was finalized 10/02/2021: its QA/QC assessment was finalized
Date (DD/MM/YYYY) when the recommendation is completed:	10/02/2021

Summary of the request for update:

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 any one of the WAPP member countries i.e. Benin, Burkina Faso, Côte d'Ivoire, Ghana, Mali, Niger, Nigeria, Senegal and Togo and is connected to the WAPP;
- (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.

The latest approved and valid values of this standardized baseline are the only values of the CO₂ emission factor(s) that shall be applied for the project electricity system in the WAPP member countries listed under sub-para (a) above.

Table 1. On a emission factors for the electricity system of the WAFF						
			Applicable values			
Parameter	Unit	Description	Applicable project types	First crediting period	Second crediting period	Third crediting period
ЕF _{grid} , ом, у	tCO₂/MWh	Operating margin CO ₂ emission factor for the WAPP power system	All project activities	0.578		
ЕF _{grid,} вм, у	tCO ₂ /MWh	Build margin CO ₂ emission factor for the WAPP power system	All project activities	0.556		
EFgrid, CM, y	tCO2/MWh	Combined margin CO ₂ emission factor for the WAPP power system	All project activities except wind and solar power generation	0.567	567 0.562	
EFgrid, CM, y	tCO2/MWh	Combined margin CO ₂ emission factor for the WAPP power system	Wind and solar power generation project activities	0.573		

Table 1. Grid emission factors for the electricity system of the WAPP

It is noted that the DNA has requested that the validity period of the proposed updated standardized baseline should be 5 years. Most of the approved standardized baselines carry a validity period of 3 years, however a handful have been approved with longer validity such as 7 years in the case of "ASB0008-2020: Methane Emissions from Rice Cultivation in the Republic of the Philippines (version 01.0)". When the validity proposed is longer than 3 years it needs to be justified by the DNA as per "Standard: Determining coverage of data and validity of standardized baselines".

The DNA justified its proposal for 5 years validity highlighting that;

(a) WAPP has undergone a slow evolution of technologies as confirmed from review of previous submission of ASB0034¹ and current submission the share of natural gas has reduced by 20% with corresponding increase of 11% in the share of renewables (e.g. hydro, solar and wind) and increase 9% in the share of coal and diesel generation. Refer to following table for further details.

Table 2.	WAPP	- Electricity	generation	by fuel	type
TUDIC L.		- Licculoty	generation	by ruci	ypc.

Fuelture	Data Vintage		
ruei type	2013	2019	
Natural Gas	70.2%	50.0%	
Hydro	21.0%	24.0%	
Diesel	8.2%	12.4%	
Oil	0.5%	5.5%	
Coal	0.0%	0.2%	
Solar	0.0%	7.5%	

¹ Refer approval history of ASB0034 at <u>https://cdm.unfccc.int/methodologies/standard_base/2015/sb102.html</u>

Wind	0.0%	0.4%	

(b) Further, the operating margin emission factor of WAPP grid has increased by 3 per cent and build margin emission factor has decreased by 2 per cent. This has resulted in overall increase in combined margin emission factor by 2 per cent during the past 6 years. Refer following table for further details.

Table 3. WA	PP arid	emission	factor
-------------	---------	----------	--------

				Applicable values	
Parameter	Unit	Description	ASB0034	Update request of ASB0034	
EF _{grid,} ом, у	tCO ₂ /MWh	Operating margin CO ₂ emission factor for the WAPP power system	0.559	0.578	
EFgrid, BM, y	tCO ₂ /MWh	Build margin CO ₂ emission factor for the WAPP power system	0.565	0.556	
EFgrid, CM, y	tCO ₂ /MWh	Combined margin CO2 emission factor for the WAPP power system for all projects except wind and solar for 1st crediting period, (WOM = 0.5, WBM = 0.5 for all crediting periods)	0.562	0.567	
EFgrid, CM, y	tCO ₂ /MWh	Combined margin CO_2 emission factor for the WAPP power system for all projects except wind and solar for 2^{nd} and 3^{rd} crediting period, (WOM = 0.25, WBM = 0.75 for all crediting periods)	0.563	0.562	
EFgrid, CM, y	tCO ₂ /MWh	Combined margin CO ₂ emission factor for the WAPP power system for wind and solar projects, (WOM = 0.75, WBM = 0.25 for all crediting periods)	0.561	0.573	

The assessment team noted that in 2013 the 5 years average share of low-cost must run power generation (constituting renewable sources) in WAPP grid was 25.24 per cent while in 2019 that has increased to 27.14 per cent. Further, as per "Update of the ECOWAS² revised master plan for the generation and transmission of electrical energy, volume 4"³, the WAPP grid by 2025 is expected to have 33% of its generation from renewable sources and by 2030 it is expected to increase to 38%. In essence, the energy mix in the WAPP region is changing, although barriers persist for rapid penetration of renewable energy, it is seen that decarbonization of the grid is under way.

Further, it is also noted from the 'WAPP GEF – Grid Emission Factor Report' that construction is ongoing to interconnect remaining WAPP member countries namely Sierra Leone, Liberia, Guinea, Guinea Bissau and The Gambia with the WAPP.

Taking into account the above dynamic nature of decarbonization in the WAPP grid, the assessment team proposes to maintain the default validity period of 3 years for the standardized baseline.

Recommendation to the Board:

To approve the proposed updated standardized baseline

² Economic Community of West African States refer <u>Member States | Economic Community of West African</u> <u>States(ECOWAS)</u> for further details.

³ WAPP | West African Power Pool the specialized agency of ECOWAS (ecowapp.org)

Not to approve the proposed updated standardized baseline

Reasons for not approving the proposed updated standardized baseline:

Not applicable

Any other issues arising from the assessment of the proposed updated standardized baseline:

Not applicable

- - - - -

Document information

Version	Date	Description
01.0	31 January 2018	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Methodology Keywords: standardized baselines, update of standardized baseline		