

**ASB0008-2020**

## Standardized baseline

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# Methane Emissions from Rice Cultivation in the Republic of the Philippines

Version 01.0



**United Nations**  
Framework Convention on  
Climate Change

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## **1. Introduction**

1. This standardized baseline provides the values of the baseline emission factors for methane emissions from rice cultivation in the Philippines.

## **2. Scope, applicability, and entry into force**

### **2.1. Scope**

2. The scope of the standardized baseline is rice cultivation in the agriculture sector in the Republic of the Philippines.

### **2.2. Applicability**

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

4. In addition to the applicability conditions described in version 04.0 of small-scale methodology AMS-III.AU “Methane emission reduction by adjusted water management practice in rice cultivation”, the following conditions shall apply:

- (a) The standardized baseline is applicable to the CDM projects that aim to change the water regime from continuously to intermittent flooded conditions/alternating wetting and drying in single aeration or multiple aeration in the following types of rice fields in the Philippines that use rice straw on season as an organic amendment:
  - (i) Irrigated rice fields that are continuously flooded on-season and where single cropping is practiced;
  - (ii) Irrigated rice fields that are continuously flooded on-season and where double cropping is practiced;
- (b) The baseline applies to transplanted rice farms that change the water regime during the cultivation period from continuous to intermittent flooded conditions/alternating wetting and drying (single aeration and multiple aeration).

### **2.3. Entry into force**

5. Immediately upon adoption of the standardized baseline by the CDM Executive Board on 6 October 2020.

### **2.4. Validity of this standardized baseline**

6. The values are valid from 6 October 2020 until 19 February 2025. The same values are also applicable for the period that extends from date of expiry of ASB0008 “Methane Emissions from Rice Cultivation in the Republic of the Philippines” i.e. 19 February 2018 to 6 October 2020.

### 3. Normative references

7. This standardized baseline is based on the proposed new standardized baseline PSB0050 “Methane emissions from rice cultivation in the Republic of the Philippines” submitted by the designated national authority (DNA) of the Philippines.
8. For more information regarding the proposed new standardized baseline as well as their consideration by the CDM Executive Board please refer to <[http://cdm.unfccc.int/methodologies/standard\\_base/index.html](http://cdm.unfccc.int/methodologies/standard_base/index.html)>.
9. This standardized baseline is derived from and used in conjunction with the version 4.0 of the small-scale methodology AMS-III.AU “Methane emission reduction by adjusted water management practice in rice cultivation”.

### 4. Definitions

10. The definitions contained in the Glossary of CDM terms shall apply.
11. The definitions contained in version 04.0 of AMS-III.AU “Methane emission reduction by adjusted water management practice in rice cultivation” shall apply.

### 5. Parameters, values and additionality criterion

12. The project activities which change the water regime from continuously to intermittent flooded conditions/alternating wetting and drying are deemed automatically additional in the case of the Philippines, as per paragraph 10 (c) of the methodological tool for “Demonstration of additionality of small-scale project activities” (TOOL21).
13. This standardized baseline provides values for the parameter  $EF_{BL,c}$  for “baseline emission factor for continuously flooded fields without organic amendments” (kgCH<sub>4</sub>/ha/day or kgCH<sub>4</sub>/ha/season)<sup>1</sup>.

**Table 1. Specific emission factor for baseline (kgCH<sub>4</sub>/ha/season) for Dry Season**

	$EF_{BL,c}$	$SF_{BL,w}$	$SF_{BL,p}$	$SF_{BL,o}$	Baseline emission factor ( $EF_{BL}$ )
For regions where double cropping is practiced	171.40	1.00	1.00	2.88	493.63
	171.40	1.00		1.70	

<sup>1</sup>  $SF_{BL,w}$  is baseline scaling factor to account for the differences in water regime during the cultivation period,

$SF_{BL,p}$  is baseline scaling factor to account for the differences in water regime in the pre-season before the cultivation period,  $SF_{BL,o}$  is baseline scaling factor to account for organic amendments.  $EF_{BL}$  is the baseline emission factor (kgCH<sub>4</sub>/ha/season) after multiplying  $EF_{BL,c}$  with all the three scaling factors.

For regions where single cropping is practiced			0.89		259.33
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**Table 2. Specific emission factor for baseline (kgCH<sub>4</sub>/ha/season) for Wet Season**

	$EF_{BL,c}$	$SF_{BL,w}$	$SF_{BL,p}$	$SF_{BL,o}$	Baseline emission factor ( $EF_{BL}$ )
For regions where double cropping is practiced	297.42	1.00	1.00	2.88	856.56
For regions where single cropping is practiced	297.42	1.00	0.89	1.70	449.99

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**Document information**

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01.0	6 October 2020	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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