ERRATA AND CLARIFICATIONS TO *AM0073 - GHG EMISSION REDUCTIONS THROUGH MULTI-SITE MANURE COLLECTION AND TREATMENT IN A CENTRAL PLANT*

Publication date: 11 April 2023

This document provides errata and clarifications applicable to the *CDM methodology AM0073 GHG Emission Reductions Through Multi-site Manure Collection And Treatment In A Central Plant* if used under the VCS Program. Such errata and clarifications are effective on their issuance date. Project proponents and validation/verification bodies (VVBs) shall apply and interpret *AM0073, v1.0* consistent with the clarifications set out in this document.

Erratum/ Clarification	Description	Document and Section Reference	Effective Date
Erratum 1	Error in Equation 3 to calculate PE$_{AD,y}$	AM0073 v1.0, Project emissions	Effective immediately
Clarification 1	Use of other factors in Equation 3 to calculate PE$_{AD,y}$	AM0073 v1.0, Project emissions	Effective immediately

1   Erratum 1: Error in Equation 3 to calculate PE$_{AD,y}$

Erratum:

Equation 3 should read as:

$$PE_{AD,y} = GWP_{CH_4} \times \rho_{CH_4,n} \times \frac{LF_{AD}}{(1 - LF_{AD})} \times\!\!\!\!\xcancel{\times 10^{-3}} \sum_{h=1}^{8760} (FV_{RG,h} \times fv_{CH_4,RG,h})$$

Background:

Equation 3 calculates methane emissions based on the volume of methane captured, its density and a leakage factor. A factor of 10^{-3} was included for the conversion of units of the density of the methane if expressed in kg/m³. However, the density of methane ($\rho_{CH_4,n}$) is already expressed as 6.7×10^{-4} t/m³ and not kg/m³.

2   Clarification 1: Use of other factors in Equation 3 to calculate PE$_{AD,y}$

Clarification:

The use of 0.15 is not mandatory and a lower value may be used, if properly justified through documented evidence which should be validated/verified by the VVB.

For example, CDM TOOL 14 and 2019 Refinement to the 2006 IPCC Guidelines for National GHG Inventories contain reference values for this parameter.

Background:

The section "Project emissions" on page 9 of AM0073, v1.0 includes the following paragraph:

Ex ante leakage to be reported in the CDM-PDD will be estimated using equation 3 or 4 below, with a leakage factor of 0.15 or a lower value, if properly justified through documented evidence (which should be validated by the DOE).

However, the methodology uses a fixed leakage factor LF$_{AD}$ of 15% on page 10:

LF$_{AD}$ = Methane leakage from anaerobic digesters/reactor, default of 0.15