



SIMPLIFIED SUMMARY OF THE NEW BASELINE AND MONITORING METHODOLOGY OR METHODOLOGICAL TOOL FORM (Version 02.0)

BASIC INFORMATION OF THE NEW BASELINE AND MONITORING METHODOLOGY OR METHODOLOGICAL TOOL

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Type of standard	New baseline and monitoring methodology
Unique reference number	A6.4-PMM010
Title of the new baseline and monitoring methodology or new methodological tool	Partial substitution of fossil fuels by MSW in cement manufacture
Date of completion of the initial assessment	12/08/2026

SUMMARY OF THE NEW BASELINE AND MONITORING METHODOLOGY

Scope of the methodology	The proposed mechanism methodology is applicable for Article 6.4 activities that use municipal solid wastes (MSW) to partially replace fossil fuels in existing clinker plants for cement production.
Key applicability conditions	The methodology is applicable where fossil fuel(s) are used in an existing clinker production facility and are partially replaced by alternative fuel(s). Capital expenditures (CAPEX) and additional operational expenses (OPEX) are required to enable the use of the alternative fuel(s), such as logistics, processing of waste, measurement, and feeding into the clinker kiln. The use of alternative fuel is incremental to any existing use of it. The type of alternative fuel (MSW) can be different from the current fuel. There is at least one supplier of the new alternative fuel assured for the first crediting period. The methodology is applicable for the installed capacity (expressed in tonnes of clinker/year) at the time of validation. The use of the MSW as an alternative fuel does not divert waste from other activities. The waste is not chemically processed before combustion, but may be processed mechanically or dried on-site. The waste used by the project facility is not stored for more than one year or is stored under aerobic conditions. The methodology is only applicable if the continuation of the current fuel mix or the use of different fossil fuel mix results in the most plausible baseline scenario.

Baseline approach and downward adjustment	The methodology uses an approach based on existing actual or historical emissions, adjusted downwards to ensure alignment with paragraph 33 of the RMPs.
Demonstration of additionality	Additionality is demonstrated in line with the “Standard: Demonstration of additionality in mechanism methodologies” (A6.4-STAN-METH-003), including a regulatory analysis, analysis of lock in risk, investment analysis and common practice analysis.
Calculation of emission reductions or net GHG removals	a) Baseline emissions: - Baseline emissions from the fossil fuels displaced by the alternative fuel(s) are based on the quantity of alternative fuel used and its calorific value. - Baseline emissions from decay, dumping, or burning of waste are based on the amount of waste diverted and used under the activity scenario. b) Activity emissions: - Emissions from the combustion of alternative fuels and/or less carbon-intensive fossil fuels, and additional fossil fuels. - Emissions from electricity consumption, transportation of alternative fuels, and cultivation of biomass. c) Leakage emissions: - Leakage emissions are identified, addressed and discounted in line with the “Standard: Addressing leakage in mechanism methodologies” (A6.4-STAN-METH-005).
Monitored parameters	The key monitored parameters are: - Regulated Adjustment Factor (RAF); - Quantity of alternative fuel used in the project plant in year y; - Quantity of fossil fuel used in the project plant in year y; - Weighted average CO₂ emission factor for alternative fuels used; - Weighted average CO₂ emission factor for fossil fuel used; - Weighted average net calorific value of the alternative fuel used; - Production of clinker in year y; - Emissions factor for the fossil fuels displaced by the use of alternative fuels in the project plant; - Quantity of fuel combusted in process j; - Weighted average mass fraction of carbon in the fuel used; - Quantity of electricity consumed by the project electricity consumption source j in year y

SUMMARY OF THE NEW METHODOLOGICAL TOOL	
Scope of the methodological tool	N/A
Key applicability conditions	N/A
Calculation of baseline emissions/removals, project emissions/removals or leakage	N/A
Monitored parameters	N/A

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
02.0	20 August 2025	Revision to incorporate new sections and sub-sections in line with current standards.
01.0	18 December 2024	Initial publication of form template.
Decision Class: Regulatory Document Type: Form Business Function: Methodology Keywords: A6.4 mechanism, developing methodologies and tools, summary notes		