CORRECTION TO VM0043 METHODOLOGY FOR CO₂ UTILIZATION IN CONCRETE PRODUCTION

Publication date: 09 October 2023

This document provides a correction to VM0043 Methodology CO₂ Utilization in Concrete Production, v1.0. This correction is effective on the effective date listed in the table. Project proponents and validation/verification bodies (VVBs) shall apply and interpret VM0043 v1.0, consistent with the correction set out in this document.

This update will also be incorporated into the next version of the methodology.

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1. **Correction 1:** Error in equation 5 to estimate the quantity of CO₂ stored in the concrete by testing procedure

**Correction:**

Equation 5 must be read as:

\[
BE_{CO₂, cap, y} = \sum_i (Q_{concrete, i, p, y} * (C_{project sample, i, y} - C_{baseline sample, i, y}) * 1000 * \frac{44}{12})
\]

Where:

- \(Q_{concrete, i, p, y}\) = Quantity of concrete produced by the project for product mix design \(i\) in year \(y\) in (metric tonnes)
C_{project sample, i, y} = \text{Carbon content of samples of concrete for each design mix } i \text{ in year } y \text{ taken from the project activity (kgC/kg of concrete in the sample)}

C_{baseline sample, i, y} = \text{Carbon content of samples of concrete for each design mix } i \text{ in year } y \text{ that are not using the project activity technology (kgC/kg of concrete in the sample)}

\textbf{Background:}

\( \text{BE}_{\text{CO2,cap,y}} \) in equation 5 is determined in tCO\(_2\). The factor 1000 is not appropriate given the units’ equivalence for the carbon content of samples of concrete, i.e., 1 kgC / kg of concrete is equivalent to 1 tC / t of concrete (%w/w).