

VM0038 METHODOLOGY FOR ELECTRIC VEHICLE CHARGING SYSTEMS

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This document provides corrections applicable to [VM0038 Methodology for Electric Vehicle Charging Systems, v1.0](#). Such corrections are effective on the effective date listed in the table. Project proponents and validation/verification bodies (VVBs) shall apply and interpret VM0038, v1.0, consistent with the corrections set out in this document.

These corrections will be incorporated into the next issued version of the methodology.

Correction/Clarification	Description	Document and Section Reference	Effective Date
Correction 1	Correction to the Equation 8 to calculate the emission factor for electricity from on-site battery (EF _k w _{onsitebatt_{i,j,y}})	VM0038 v1.0, Project emissions	Effective immediately
Correction 2	Reference to the correct equation to estimate the emission factor for electricity from associated infrastructure when specific time-of-day estimates are available	VM0038 v1.0, Project emissions	Effective immediately

1 Correction 1: Error in Equation 8 to calculate emission factor from on-site battery

Correction:

Equation 8 should read as:

$$EFkwonsitebatt_{ijy} = \sum_z (ECB_{ijzy} * EFkwAlZ_{ijzy}) / \sum_z ECB_{ijzy}$$

Background:

The electricity emissions factor for the on-site battery must be calculated using the net weighted average of the grid and on-site renewable emission factors, which was not reflected in Equation 8. With the corrected Equation 8, the emission factor for on-site battery associated infrastructure is calculated using a net weighted average of the grid and on-site renewable factors.

2 Correction 2: Error in reference to the equation used to calculate time-of-day estimates for electricity emission factors

Correction:

The third bullet point on page 17 should read as:

Equation ~~76 must~~ should be applied to calculate $EFkwTODAI_{i,j,s,t,y}$ where electricity generation's hourly fuel consumption data is relied on to provide time-of-day emission rates for each associated infrastructure source (e.g., grid-derived electricity).

Background:

The reference to Equation 7 to calculate the emission factor of the electricity on an hourly basis was incorrect. Equation 6 should be used to calculate $EFkwTODAI_{i,j,t,y}$. The methodology does not include a specific equation to calculate $EFkwTODAI_{i,j,s,t,y}$. However, it can be calculated by adapting Equation 6, which follows a similar procedure, but without the sub-variables.