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Correction: Contribution to a standardized economic and ecological assessment methodology for e-fuel production in Germany

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KEYWORDS

comparability, energy-transition, techno-economic analysis, life cycle assessment, power-to-x process, standardizing

A Correction on

Contribution to a standardized economic and ecological assessment methodology for e-fuel production in Germany

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Equation 9 in [Section 2.2 line 332] was erroneously given as $\left[ACC\left[\frac{\text{€}}{\text{a}}\right] = FCI \cdot \left(\frac{IR \cdot (1+IR)^y}{(1+IR)^y - 1} + \frac{IR \cdot y}{9}\right)\right]$.

The correct equation is $ACC\left[\frac{\text{€}}{\text{a}}\right] = FCI \cdot IR \cdot \left(\frac{(1+IR)^y}{(1+IR)^y - 1} + \frac{y}{1-9}\right)$.

Equation 8 in [Section 2.2 line 328] was erroneously given as $[TCI = FCI \cdot (1 - \text{working capital})^{-1}]$.

The correct equation is $TCI = \frac{FCI}{1 - \text{working capital}}$

Equation 6 in [Section 4.3 line 559] was erroneously given as $\left[NPC\left[\frac{\text{€}}{\text{kg}}\right] = \frac{(1.53 + 0.92 + 247.1 + 0.5) \frac{\text{M€}_{2018}}{\text{a}}}{248,807.8 \frac{\text{€}}{\text{a}}} = 1 \frac{\text{€}_{2018}}{\text{kg}}\right]$.

The correct equation is $NPC\left[\frac{\text{€}}{\text{kg}}\right] = \frac{(0.7 + 0.92 + 247.1 + 0.5) \frac{\text{M€}_{2018}}{\text{a}}}{248,807.8 \frac{\text{€}}{\text{a}}} = 1 \frac{\text{€}_{2018}}{\text{kg}}$. Its equation number has to be updated to (10).

Text correction

[With an assumed interest rate of 5%, see Table 1, and equation (9) the ACC equals $1.53 \text{ M€}_{2018} \text{ a}^{-1}$. Given the values of Table 7, the OL results $0.49 \text{ M€}_{2018} \text{ a}^{-1}$. In Table 10 the intermediate and the main result of the OPEX_{ind} calculation is shown].

A correction has been made to the section 4.3 Economic analysis:

“[With an assumed interest rate of 5%, see Table 1, and equation (9) the ACC equals $0.7 \text{ M€}_{2018} \text{ a}^{-1}$. Given the values of Table 7, the OL results $0.49 \text{ M€}_{2018} \text{ a}^{-1}$. In Table 10 the intermediate and the main result of the OPEX_{ind} calculation is shown.]”

The original article has been updated.

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