CORRECTION

Correction: Embodied Greenhouse Gas Emissions in Diets

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There are errors in the Materials and Methods under the subheading “Assessing Fossil Energy and GHG Emissions.” The correct text is: For estimating fossil energy and GHG emissions associated with the dietary patterns, we combined data on agricultural energy output/input (O/I) ratio ($R_{O/I}$) [5], on agricultural non-CO₂ GHG emissions [8], on feed supply [10], on nutritive factors [47] and on food production [10]. First, we calculated the feed supply in kcal/cap/day (F) and the non-CO₂ GHG emission intensity per kcal of crop products (ec) and animal products (ea) for each country from the FAOSTAT and agricultural non-CO₂ GHG emissions data (S2 Text). To aggregate the impact data to the sixteen dietary patterns, we consider the sixteen sets (Z) of pairs of countries (C) and years (Y), making up a certain dietary pattern, and related subsets Z' as the elements for which data on X ($R_{O/I}$, ec , ea and F) is available. Then the average value (X_z) for a dietary pattern was calculated as the average from the set Z' (Eq 1). Subsequently, we will denote these dietary pattern specific averages as $R_{O/Iz}$ (energy O/I ratio), ec_z and ea_z (non-CO₂ GHG emission intensities), and F_z (feed use). From these values, we calculated GHG emissions from crop products (EC_z), animal products (EA_z) and total food consumption (ET_z) with Eqs 2, 3 and 4, respectively. PC_z and PA_z are the consumption of crop products (total food consumption minus animal products consumption) and animal products, respectively, while eD is the emission intensity of diesel (0.36 g CO_{2eq}/kcal) [48], which was used to estimate GHG emissions from fossil energy. The required fossil energy input (FE_z) was estimated with Eq 5. Note that Eqs 3 and 5 include a term to estimate environmental impacts from animal feed.

$$X_z = \frac{1}{\#(Z')} \sum_{(C,Y) \in Z'} X(C, Y) \quad (1)$$

$$EC_z = ec_z \times PC_z + \frac{PC_z}{R_{O/Iz}} \times eD \quad (2)$$

$$EA_z = ea_z \times PA_z + \frac{F_z}{R_{O/Iz}} \times eD + ec_z \times F_z \quad (3)$$

$$ET_z = EC_z + EA_z \quad (4)$$

$$FE_z = \frac{PC_z + F_z}{R_{O/Iz}} \quad (5)$$

There are errors in the S2 Text under the heading “2.2 Data Sources and processing.” Please see the correct text here.

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Supporting Information

S2 Text. Methods and Data.
(DOCX)

Reference

1. Pradhan P, Reusser DE, Kropp JP (2013) Embodied Greenhouse Gas Emissions in Diets. PLoS ONE 8(5): e62228. doi:[10.1371/journal.pone.0062228](https://doi.org/10.1371/journal.pone.0062228) PMID: [23700408](https://pubmed.ncbi.nlm.nih.gov/23700408/)