SBD Lab

(Liege University - (ULiege / ULg))

Dataset on dynamic grid emissions from electricity grids across the globe for 2023

Version 1.0

Amaripadath, Deepak; Attia, Shady, 2024, "Dataset on dynamic grid emissions from electricity grids across the globe for 2023", https://doi.org/10.7910/DVN/5LKQ2H, Harvard Dataverse, V1

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Description ❓

This dataset provides the average dynamic grid emission factors for electricity grids from multiple countries worldwide for 2023. The data from [1] was used to calculate the average dynamic grid emission factors in gCO2eq. These values were averaged by hours per day of each month using the methodology based on [2,3]. Reference: 1. Electricity Maps. (2024). Granular electricity data for scope 2 carbon accounting. Copenhagen, Denmark. [Online]. Available at: https://www.electricitymaps.com/data-portal. Accessed on Oct. 02, 2024. 2. Hepf, C., Bausch, K., Lauss, L., Koth, S. C., & Auer, T. (2022). Impact of dynamic emission factors of the German electricity mix on the greenhouse gas balance in building operation. Buildings, 12(12). https://doi.org/10.3390/buildings12122215. 3. Peters, J. F., Iribarren, D., Juez Martel, P., & Burguillo, M. (2022). Hourly marginal electricity mixes and their relevance for assessing the environmental performance of installations with variable load or power. Science of The Total Environment, 843, 156963. https://doi.org/10.1016/j.scitotenv.2022.156963. (2024-11-18)

Subject ❓

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Keyword

grid emission, energy mix, GHG emission factor

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2023_DynamicGridEmissionFactors.xlsx
MS Excel Spreadsheet - 1.2 MB
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