



Perhitungan Carbon Footprint

Definisi

Scope 1 mencakup emisi langsung yang dimiliki atau dikendalikan oleh sebuah perusahaan, sementara *scope 2* dan 3 adalah emisi tidak langsung yang muncul sebagai hasil dari aktivitas perusahaan tetapi berasal dari sumber yang tidak dimiliki atau dikendalikan oleh perusahaan tersebut.

CO₂ (electricity)

$$\begin{aligned} &= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0,84 \\ &= \frac{1,633,286 \text{ kWh}}{1000} \times 0,84 \\ &= 1,371.96 \text{ metric tons} \end{aligned}$$

CO₂ (bus)

$$\begin{aligned} &= \frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus only (KM)}}{100} \times 0,02 \\ &= \frac{15 \times 150 \times 5 \times 240}{100} \times 0,02 \\ &= 270 \text{ metric tons} \end{aligned}$$

CO₂ (cars)

$$\begin{aligned} &= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,02 \\ &= \frac{2,000 \times 2 \times 5 \times 240}{100} \times 0,02 \\ &= 960 \text{ metric tons} \end{aligned}$$

CO₂ (motorcycle)

$$\begin{aligned} &= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= \frac{4,000 \times 2 \times 5 \times 240}{100} \times 0,01 \\ &= 960 \text{ metric tons} \end{aligned}$$

CO₂ (total)

$$\begin{aligned} &= 1,371.96 + 270 + 960 + 960 \\ &= 3,561.96 \text{ metric tons} \end{aligned}$$

Carbon footprint in 2023 = 3,561.96 metric tons

Description:

(Please describe the total carbon footprint on your campus. You can describe more related items if needed.)

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Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):