



Bukti Kuesioner UI GreenMetric

Fakultas : Program Pendidikan Vokasi UI
Web Address : vokasi.ui.ac.id

[2] Energi dan Perubahan Iklim

[2.11] Berapa Jumlah Jejak Karbon Fakultas Anda selama 12 Bulan Terakhir (dalam metri ton)

Option 2: Recommended by UI GreenMetric

CO₂ (electricity)

$$\begin{aligned} &= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0,84 \\ &= \frac{1,477,876 \text{ kWh}}{1000} \times 0,84 \\ &= 1,241.42 \text{ metric tons} \end{aligned}$$

CO₂ (bus)

$$\begin{aligned} &= \frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= \frac{1 \times 7 \times 21 \times 240}{100} \times 0,01 \\ &= 3.53 \text{ metric tons} \end{aligned}$$

CO₂ (cars)

$$\begin{aligned} &= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,02 \\ &= \frac{60 \times 2 \times 5 \times 240}{100} \times 0,02 \\ &= 28.8 \text{ metric tons} \end{aligned}$$

CO₂ (motorcycle)

$$\begin{aligned} &= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= \frac{200 \times 2 \times 5 \times 240}{100} \times 0,01 \\ &= 48 \text{ metric tons} \end{aligned}$$

CO₂ (total)

$$\begin{aligned} &= 1,241.42 + 3.53 + 28.8 + 48 \\ &= 1,321.75 \text{ metric tons} \end{aligned}$$

Carbon footprint in 2023 = 1,321.75 metric tons

Total Carbon Footprint (VokasiUI GreenMetric)

Deskripsi:

Penghitungan Jejak Karbon menggunakan Option 2 rekomendasi UI GreenMetric sebesar: 1.321,75 metrik ton per tahun.