

Bukti

Fakultas : MIPA

[2] Energi dan Perubahan Iklim

[2.11] Berapa jumlah Jejak Karbon Fakultas anda selama 12 bulan terakhir (dalam metrik ton)

Contoh Jejak Karbon

Option 2: Recommended by UI GreenMetric

CO₂ (electricity)

$$= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0,84$$

$$= \frac{479.744 \text{ kWh}}{1000} \times 0,84$$

$$= 0.972 \text{ metric tons}$$

CO₂ (bus)

$$= \frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01$$

$$= \frac{0 \times 15 \times 5 \times 240}{100} \times 0,02$$

$$= 0 \text{ metric tons}$$

CO₂ (cars)

$$= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,02$$

$$= \frac{4829 \times 2 \times 5 \times 240}{100} \times 0,02$$

$$= 15.2 \text{ metric tons}$$

CO₂ (motorcycle)

$$= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01$$

$$= \frac{4893 \times 2 \times 5 \times 240}{100} \times 0,01$$

$$= 209.03 \text{ metric tons}$$

CO₂ (total)

$$= 0.84 + 0 + 14.1 + 201$$

$$= 225.202 \text{ metric tons}$$

Carbon footprint in 2022 = 0.14 metric tons

Total Carbon Footprint FMIPA UI

Deskripsi:

Total Kaborbon kampus FMIPA UI dihitung dari konsumsi listrik selama 1 tahun terakhir dan ditambah dengan jumlah kendaraan bermotor yang memasuki kampus. Maka berdasarkan penghitungan sumber carbon footprint FMIPA UI tahun 2022 maka total jejak CO₂ adalah 622.59 metric tons

Additional evidence link: