

UI GreenMetric

University : Karunya Deemed to be University
Country : India
Web Address : www.karunya.edu

[2] Energy and Climate Change (EC)

[2.11] Please Provide The Total Carbon Footprint (CO₂ emission in the last 12 months, in metric tons)

Option 2: Recommended by UI GreenMetric

CO₂ (electricity)

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

$$= \frac{73,00,623 \text{ kWh}}{1000} \times 0,84$$

$$= 6,132.52 \text{ metric tons}$$

CO₂ (bus)

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

$$= \frac{13 \times 26 \times 0.2 \times 240}{100} \times 0,01$$

$$= 1.62 \text{ metric tons}$$

CO₂ (cars)

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

$$= \frac{95 \times 2 \times 0.5 \times 240}{100} \times 0,02$$

$$= 4.56 \text{ metric tons}$$

CO₂ (motorcycle)

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

$$= \frac{130 \times 2 \times 0.4 \times 240}{100} \times 0,01$$

$$= 2.5 \text{ metric tons}$$

CO₂ (total)

$$= 6132.52 + 1.62 + 4.56 + 2.5$$

$$= 6141.2 \text{ metric tons}$$

Carbon footprint in March 2022 - April 2023 = 6141.2 metric tons

Example of Total Carbon Footprint (UI GreenMetric)

For additional information, please click the following link:

www.karunya.edu/iqac/Rankings/UIGreenMetric/Energy & Climate Change/2.11 Additional.pdf