Enviromental Sustainability

The Total Carbon Footprint (CO_2 emission in the last 12 months, in Square Meters)

CO_2 (electricity)

$$= \frac{3269180\ (kWh)}{1000} \times 0.84$$

$$= 2746.11 \text{ metric tons}$$

CO_2 (bus)

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

$$= \frac{17 \times 5 \times 2 \times 240}{100} \times 0.01$$

$$= 4.08 \text{ metric tons}$$

CO_2 (cars)

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

$$= \frac{5 \times 2 \times 6 \times 240}{100} \times 0.02$$

$$= 2.88 \text{ metric tons}$$

CO_2 (motorcycle)

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

$$= \frac{5 \times 2 \times 6 \times 240}{100} \times 0.01$$

$$= 1.44 \text{ metric tons}$$

CO_2 (total)

$$= 2746.11 + 4.08 + 2.88 + 1.44$$

$$= 2762.37 \text{ metric tons}$$

Carbon footprint in 2022-2023 = 2755 metric tons

Description:

Carbon footprint in 2022-2023 is 2755 metric tons=2755*1000=2755000 Square Meters