



Total Carbon Footprint (CO<sub>2</sub> emission in the last 12 months, in metric tons) for PUA for the academic year (2022-2023)

**CO<sub>2</sub> (electricity)**

$$\begin{aligned} &= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0,84 \\ &= \frac{5954767 \text{ kWh}}{1000} \times 0,84 \\ &= 5,002.00 \text{ metric tons} \end{aligned}$$

**CO<sub>2</sub> (bus)**

$$\begin{aligned} &= \frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= \frac{0 \times 0 \times 2 \times 240}{100} \times 0,01 \\ &= 0.00 \text{ metric tons} \end{aligned}$$

**CO<sub>2</sub> (cars)**

$$\begin{aligned} &= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,02 \\ &= \frac{2,131 \times 2 \times 2 \times 240}{100} \times 0,02 \\ &= 409.152 \text{ metric tons} \end{aligned}$$

**CO<sub>2</sub> (motorcycle)**

$$\begin{aligned} &= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= \frac{187 \times 2 \times 2 \times 240}{100} \times 0,01 \\ &= 17.952 \text{ metric tons} \end{aligned}$$

**CO<sub>2</sub> (total)**

$$\begin{aligned} &= 5,002.00 + 0.00 + 409.152 + 17.952 \\ &= 5,429.108 \text{ metric tons} \end{aligned}$$

Carbon footprint in 2023 = 5,429.108 metric tons

**Total Carbon Footprint (Pharos University in Alexandria, Egypt)**



اعداد دخول و خروج سيارات و درجات الجامعة Average Number of Cars and Motorcycles Entering the University		
العدد - Number	البيان	م
1206	سيارات الموظفين و الدكاترة - Cars	1
885	سيارات الطلبة بنزين - Student Cars	2
40	سيارات طلبة الغاز - Student Cars	3
117	الدرجات البخارية للموظفين - Motorcycles	4
70	الدرجات البخارية للطلبة و الدكاترة - Motorcycles	5

CO2 Electricity	Value
Electricity usage per year (KWh)	5954767
CO2 Electricity in metric tons	5002.004
CO2 Bus	
number of shuttle bus in your university	0
CO2 Bus in metric tons	0
CO2 Cars	
number of cars entering your university	2131
total trips for cars each day	2
approximate travel distance of vehicle each day inside campus only (KM)	2
CO2 Cars in metric tons	409.152
CO2 Motorcycle	
number of motorcycle entering your university	187
total trips for motorcycle each day	2
approximate travel distance of vehicle each day inside campus only (KM)	2
CO2 Motorcycle in metric tons	17.952
CO2 Total	
CO2 Total in metric tons	5429.108