



## The Total Carbon Footprint (CO<sub>2</sub> emission in the last 12 months, in metric tons)

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

$$\begin{aligned} &= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0,84 \\ &= \frac{2699152.26 \text{ kWh}}{1000} \times 0,84 \\ &= 2267,29 \text{ metric tons} \end{aligned}$$

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

$$\begin{aligned} &= \frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= \frac{12 \times 14 \times 5 \times 240}{100} \times 0,01 \\ &= 20.16 \text{ metric tons} \end{aligned}$$

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

$$\begin{aligned} &= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,02 \\ &= \frac{1808 \times 2 \times 3 \times 240}{100} \times 0,02 \\ &= 520.7 \text{ metric tons} \end{aligned}$$

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

$$\begin{aligned} &= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= \frac{5393 \times 2 \times 3 \times 240}{100} \times 0,01 \\ &= 776.59 \text{ metric tons} \end{aligned}$$

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

$$\begin{aligned} &= 2267.29 + 20.16 + 520.7 + 776.59 \\ &= 3584.74 \text{ metric tons} \end{aligned}$$

**Carbon footprint in 2021 = 3584.74 metric tons**

After Goes Behavior in Unpad = 3584.74 - 3.84 = 3580.9 metric ton

Universitas Padjadjaran Total Carbon Footprint (UI GreenMetric)

### Description:

In 2021 Padjadjaran University produced a total carbon emission of 3584.74 metric tons. This increasing in the amount of carbon production is also due to the change in the system to hybrid learning system pasca pandemic. The largest carbon footprint comes from the use of electricity of 2267.29 and the second highest contributor to carbon emissions is motorbikes as much as 776.59. In University, carbon footprint per person from total campus population is **0.08 metric ton**.

We provide Carbon Footprint reduction from Goes Behavior. Goes Behavior program estimates the average number of cyclists per day is 16. From this we get 3.84 carbon footprint reduction. So we can get 3.84 less carbon footprint.