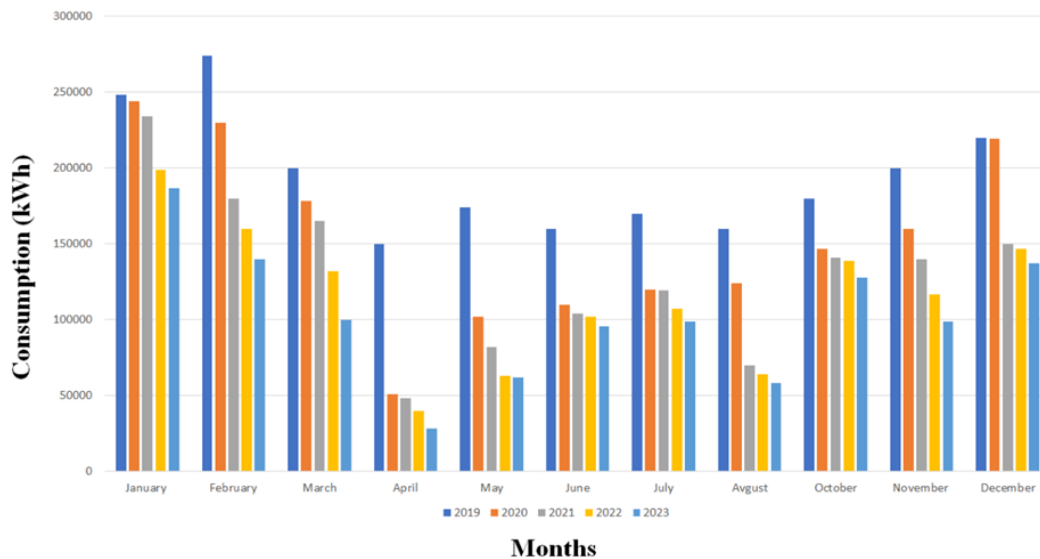


University : “TIAME” NRU
Country : Uzbekistan
Web Address : <https://tiame.uz/>

[SDG 7] Energy Usage Density

Electricity Usage per Year (in Kilowatt hour)

Total Electricity Usage (All Locations) in 2019-2023 (“TIAME” NRU, Uzbekistan)



Description:

The total electricity usage of “TIAME” NRU in 2023 is 1,289,214 kWh. On the “TIAME” NRU electricity is used for lighting, cooling, heating and laboratory appliances.

The Total Carbon Footprint (CO₂ emission in the last 12 months, in metric tons)

Option 2: Recommended by UI GreenMetric

CO₂ (electricity)

$$\begin{aligned} &= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0,84 \\ &= \frac{1.289.214 \text{ kWh}}{1000} \times 0,84 \\ &= 1,082.93 \text{ metric tons} \end{aligned}$$

CO₂ (bus)

$$\begin{aligned} &= \frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= \frac{4 \times 50 \times 5 \times 240}{100} \times 0,01 \\ &= 2.4 \text{ metric tons} \end{aligned}$$

CO₂ (cars)

$$\begin{aligned} &= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,02 \\ &= \frac{73 \times 2 \times 5 \times 240}{100} \times 0,02 \\ &= 35.04 \text{ metric tons} \end{aligned}$$

CO₂ (motorcycle)

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

CO₂ (total)

$$\begin{aligned} &= 1,082.93 + 2.4 + 35.04 + 0 \\ &= 1,120.37 \text{ metric tons} \end{aligned}$$

Carbon footprint in 2021 = 1,120.37 metric tons

Total Carbon Footprint