Tashkent State Medical University

Option 2: Recommended by UI GreenMetric

CO_2 (electricity)

$$= \frac{electricity\ usage\ per\ year\ (kWh)}{1000} \times 0{,}84$$
$$= \frac{5{,}588{,}617\ kWh}{1000} \times 0{,}84$$
$$= 4{,}694{,}44 \text{ metric tons}$$

CO_2 (cars)

$$= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0{,}02$$
$$= \frac{50 \times 2 \times 10 \times 240}{100} \times 0{,}02$$
$$= 48 \text{ metric tons}$$

CO_2 (motorcycle)

$$= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0{,}01$$
$$= \frac{5 \times 2 \times 10 \times 240}{100} \times 0{,}01$$
$$= 2.4 \text{ metric tons}$$

CO_2 (total)

$$= 4{,}694.44 + 48 + 2.4$$
$$= 3{,}561.96 \text{ metric tons}$$

Carbon footprint = 4,744.84metric tons

Total Carbon Footprint (UI GreenMetric)

Description:

Total Carbon Footprint (CO_2 Emission) in the Last 12 Months (2025)

Tashkent State Medical University (TSMU) regularly monitors its environmental impact through energy consumption assessment and carbon footprint evaluation. During 2025, the university recorded an annual electricity consumption of **5,588,617 kWh** across its academic, healthcare, research, and administrative facilities.

Based on the UI GreenMetric carbon footprint calculation methodology, the estimated carbon emissions generated from electricity consumption amounted to **4,694.44 metric tons of CO_2**. Additional emissions from campus transportation activities, including approximately **50 conventional vehicles** and **5 motorcycles**, were estimated at **50.40 metric tons of CO_2**. The university also operates **10 electric vehicles**, which contribute to reducing transportation-related greenhouse gas emissions.

The total estimated carbon footprint of TSMU for the last 12 months was **4,744.84 metric tons of CO_2**. To reduce its environmental impact, the university continues implementing renewable energy projects, energy efficiency measures, sustainable transportation initiatives, and climate action programs aimed at lowering greenhouse gas emissions and supporting long-term sustainability goals.

Source	CO_2 Emission (metric tons)
Electricity Consumption	4,694.44
Conventional Vehicles	48.00
Motorcycles	2.40
Total Carbon Footprint	**4,744.84**