

H. JEJAK KARBON

Option 2: Recommended by UI GreenMetric	
CO₂ (electricity)	
$= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0,84$	
$= \frac{1,706,973 \text{ kWh}}{1000} \times 0,84$	
$= 1,433.85 \text{ metric tons}$	
CO₂ (bus)	
$= \frac{\text{number of students in per university} \times \text{number of bus} \times \text{number of bus route} \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01$	
$= \frac{1 \times 7 \times 21 \times 240}{100} \times 0,01$	
$= 3.53 \text{ metric tons}$	
CO₂ (cars)	
$= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,02$	
$= \frac{50 \times 2 \times 5 \times 240}{100} \times 0,02$	
$= 24 \text{ metric tons}$	
CO₂ (motorcycle)	
$= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01$	
$= \frac{100 \times 2 \times 5 \times 240}{100} \times 0,01$	
$= 24 \text{ metric tons}$	
CO₂ (total)	
$= 1,433.85 + 3.53 + 24 + 24$	
$= 1,485.38 \text{ metric tons}$	
Carbon footprint in 2024 = 1,485,38 metric tons	
Total Carbon Footprint (VokasiUI GreenMetric)	