



## Template for Evidence(s) UI GreenMetric Questionnaire

University : Universitas Sebelas Maret

Country : Indonesia

Web Address : ...

[2] Energy and Climate Change (EC)

[2.11] Please Provide The Total Carbon Footprint (CO<sub>2</sub> emission in the last 12 months, in metric tons)

## CO<sub>2</sub> (electricity) $=\frac{electricity\ usage\ per\ year\ (kWh)}{1}\times0.84$ $= 6360202.205 : 1000 \times 0.84$ = 5342,57 metric tons CO<sub>2</sub> (bus) $= \frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{\text{100}} \times 0.01$ $= (2 \times 12 \times 5 \times 240): 100 \times 0.01$ = 2,88 metric tons CO<sub>2</sub> (cars) $= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{\times 0.02} \times 0.02$ $= (2541 \times 2 \times 5 \times 240): 100 \times 0,02$ = 1219,68 metric tons CO<sub>2</sub> (motorcycle) $= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{\text{motorcycle entering your university}} \times 0.01$ $= (32415 \times 2 \times 5 \times 240): 100 \times 0.01$ = 7779,6 metric tons CO<sub>2</sub> (total) = 5,342.57 + 2.88 + 1,219.68 + 7,779.6 = 14,344.73 metric tons

**Description:** 

Additional evidence link:

**Carbon footprint** = 14,344.73 metric tons

Total carbon footprint CO<sub>2</sub> emission in the last 12 months is 0.043 metric tons