



## Template for Evidence(s) UI GreenMetric Questionnaire

University : Yala Rajabhat University : YRU...  
Country : Thailand  
Web Address : <http://www.yru.ac.th> , <http://green.yru.ac.th>

SAMPLE

### [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)

##### Option 2: Recommended by UI GreenMetric

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

$$\begin{aligned} &= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0,84 \\ &= \frac{1,633,286 \text{ kWh}}{1000} \times 0,84 \\ &= 1,371.96 \text{ metric tons} \end{aligned}$$

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

$$\begin{aligned} &= \frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus (KM)}}{100} \times 0,01 \\ &= \frac{15 \times 150 \times 5 \times 240}{100} \times 0,01 \\ &= 270 \text{ metric tons} \end{aligned}$$

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

$$\begin{aligned} &= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,02 \\ &= \frac{2,000 \times 2 \times 5 \times 240}{100} \times 0,02 \\ &= 960 \text{ metric tons} \end{aligned}$$

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

$$\begin{aligned} &= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= \frac{4,000 \times 2 \times 5 \times 240}{100} \times 0,01 \\ &= 960 \text{ metric tons} \end{aligned}$$

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

$$\begin{aligned} &= 1,371.96 + 270 + 960 + 960 \\ &= 3,561.96 \text{ metric tons} \end{aligned}$$

**Carbon footprint = 3,561.96 metric tons**

Example of Total Carbon Footprint (UI GreenMetric)

Description:



*Please describe the total carbon footprint on your campus. You can describe more related items if needed.)*

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**Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):**