Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Negeri Surabaya
Country : Indonesia
Web Address : www.unesa.ac.id

[2] Energy and Climate Change [EC]

[2.11] Total Carbon Footprint (CO_2 emission in the last 12 months, in metric tons)

CO_2 Total Calculation
CO_2 (electricity) $= \frac{electricity\ usage\ per\ year\ (kWh)}{1000} x0.84$ $= \frac{4{,}332{,}201\ \text{kWh}}{1000} x0.84$ = 3,639.048 metric tons **CO_2 (bus)** $= \frac{numbers\ of\ shuttle\ bus\ in\ your\ university\ x\ total\ trips\ for\ shuttle\ bus\ service\ each\ day\ x\ approximate\ travel\ distance\ of\ vehicle\ each\ day\ inside\ campus\ only\ (KM) x240}{100} x0{,}02$ $= \frac{16\ x\ 2\ x\ 5\ x\ 240}{100} x0.02 = 7.68$ **CO_2 (cars)** $= \frac{numbers\ of\ car\ entering\ your\ university\ x\ 2\ x\ approximate\ travel\ distance\ of\ vehicle\ each\ day\ inside\ campus\ only\ (KM) x240}{100} x0{,}02$ $= \frac{249{,}6\ x\ 2\ x\ 3\ x\ 240}{100} x0.02 = 71.885$ **CO_2 (motorcycle)** $= \frac{numbers\ of\ motorcycle\ entering\ your\ university\ x\ 2\ x\ approximate\ travel\ distance\ of\ vehicle\ each\ day\ inside\ campus\ only\ (KM) x240}{100} x0{,}02$ $= \frac{4{,}803\ x\ 2\ x\ 3\ x\ 240}{100} x0.02 = 1{,}383.264$ **CO_2 (total)** =3,639.049+7.68+71.885+1,383.264=*5,101.877* metric ton

Description:

Total Carbon Footprint →5,101.877 metric ton

Total number of regular students, academic and administrative staff (part time and full time) = 38,096

Total Carbon Footprint divided by total campus population (in metric tons per person)

$= \frac{\text{Total Carbon Footprint}}{\text{Campus Population}} = \frac{5{,}101.877}{38{,}096} = 0.133\ metric\ tons\ per\ person$