University : University of WAH
Country : Pakistan
Web Address : http://www.uow.edu.pk/

The Total Carbon Footprint
(CO_2 emission in the last 12 months, in metric tons)

CO_2 (electricity)

$$= \frac{electricity\ usage\ per\ year\ (kWh)}{1000} \times 0.84$$

= (596492 kWH /1000) x 0.84

= **501 metric ton**

University of Wah (UW) is utilizing electricity generated from its own 450kW PV Solar System. Electricity usage by UW was 596492 KWH from July 2023 to June 2024. The 450 KW PV Solar System generation was 505802 kWh.

CO_2 (bus)

$$= \frac{number\ of\ shuttle\ bus\ in\ your\ university \times total\ trips\ for\ shuttle\ bus\ service\ each\ day \times approximate\ travel\ distance\ of\ vehicle\ each\ day\ inside\ campus\ only\ (KM) \times 240}{100} \times 0.01$$

$$= \frac{11 \times 2 \times 1 * 240}{100} \times 0.01$$

= **0.528 metric tons**

CO_2 (cars)

$$= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0.02$$

$$= \frac{150x2x1x240}{100} \times 0.02$$

= **14.4 metric tons**

CO_2 (motorcycle)

$$= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0.01$$

$$= \frac{210x2x1x240}{100} \times 0.01$$

= 10.08 metric tons

CO_2 (total)

= 501+0.58+14.4+10.08

= 526.06 **metric tons**

Carbon footprint in July 2023 - June 2024 = 526.06 **metric tons**

Carbon footprint per person = Carbon footprint/ Total campus population = 526.06/4997 = 0.010

Total Carbon Footprint (University of Wah) 2023-2024