Sustainable Development Goals Initiatives

Fakultas : **Ekonomi Dan Bisnis UI**

Web Address : **feb.ui.ac.id**

Program : **Perhitungan Jejak Karbon FEB UI Tahun 2023**

CO_2 (electricity)

$$= \frac{electricity\ usage\ per\ year\ (kWh)}{1000} \times 0,84$$

$$= \frac{2{,}142{,}304\ kWh}{1000} \times 0,84$$

$$= 1{,}750.6 \text{ metric tons}$$

CO_2 (bus)

$$= \frac{number\ of\ shuttle\ bus\ in\ your\ university \times total\ trips\ for\ shuttle\ bus\ service\ each\ day \times approximate\ travel\ distance\ of\ vehicle\ each\ day\ insid}{100}$$

$$= \frac{2 \times 1 \times 0{,}7 \times 240100}{100} \times 0,01$$

$$= 33{,}614 \text{ metric tons}$$

CO_2 (cars)

$$= \frac{number\ of\ cars\ entering\ your\ university \times 2 \times approximate\ travel\ distance\ of\ vehicle\ each\ day\ inside\ campus\ only\ (KM) \times 240}{100} \times 0,02$$

$$= \frac{4 \times 2 \times 20 \times 240}{100} \times 0,02$$

$$= 7{,}68 \text{ metric tons}$$

CO_2 (motorcycle)

$$= \frac{number\ of\ motorcycle\ entering\ your\ university \times 2 \times approximate\ travel\ distance\ of\ vehicle\ each\ day\ inside\ campus\ only\ (KM) \times 240}{100} \times 0,0$$

$$= \frac{4 \times 2 \times 30 \times 240}{100} \times 0,01$$

$$= 11{,}52 \text{ metric tons}$$

CO_2 (total)

$$= 1{,}750.6 + 33{,}614 + 7{,}68 + 11{,}52$$

$$= 51630{,}7 \text{ metric tons}$$

Carbon footprint in 2022 = 1792,38 metric tons