Carbon Footprint Calculation <u>Suvarnabhumi Campus</u>

CO₂ (electricity)

$$=\frac{\operatorname{electricity wange per pear (kWh)}}{1000}\times0.84$$

$$=\frac{14.124.000}{1000}\times0.084$$

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$$=\frac{19.124.000}{1000}\times0.001$$

$$=\frac{19.22.3.7\times240}{100}\times0.001$$

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$$=\frac{3.330\times12\times240}{100}\times0.001$$

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$$=\frac{3.330\times12\times240}{100}\times0.002$$

CO₂ (total)

= 52.57 metrictons

- = 11,864.16 + 0.912 + 2.592 + 587.15 + 52.57
- = 12,507.38 metric tons

Carbon Footprint in 2023 = 12,507.38 metric tons

Carbon Footprint Calculation Hua Mak Campus

CO₂ (electricity)

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

$$= \frac{2,084,184}{1000} \times 0.84$$

= 1,750.71 metric tons

CO₂ (cars)

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

$$=\frac{\frac{2,407\times2\times0.80\times240}{100}\times0.02}{100}$$

= 184.86 metric tons

CO_2 (motorcycle)

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

$$=\frac{1,408 \times 2 \times 0.80 \times 240}{100} \times 0.01$$

= 54.07 metric tons

CO_2 (total)

- = 1,750.71 + 184.86 +54.07
- = 1,989.64 metric tons

Carbon Footprint in 2023 = 1,989.64 metric tons

Total Carbon Footprint = 12,507.38 + 1,989.64

= 14,497.02 metric tons





