



## Carbon Footprint (CO<sub>2</sub> emission in 2024, in metric tons)

### Scope 1

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

$$\frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times .01$$

$$= \frac{3 \times 29 \times 125 \times 240}{100} \times .01$$

= 261 metric tons

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

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

$$= \frac{1500 \times 2 \times 2 \times 240}{100} \times .02$$

= 288 metric tons

Scope 1 total = 549 metric tons

### Scope 2

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

$$= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0.71$$

$$= \frac{17136047 \text{ (kWh)}}{1000} \times 0.71$$

= 12166.59 metric tonnes

Energy generated from renewable sources: 8532123 kWh

Scope 1 + Scope 2 carbon footprint in 2024 = 12715.59 metric tonnes

## Baseline Data 2016

### Scope 1

*CO2 (bus)* =

$$\frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times .01$$

$$= \frac{7 \times 29 \times 125 \times 240}{100} \times .01$$

= 609 metric tons

*CO2 (cars)* =

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

$$= \frac{2750 \times 2 \times 2 \times 240}{100} \times .02$$

= 528 metric tons

Scope 1 total = 1137 metric tons

### Scope 2

*CO2 (electricity)*

$$= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0.71$$

$$= \frac{34846942 \text{ (kWh)}}{1000} \times 0.71$$

= 24741.33 metric tonnes

Energy generated from renewable sources: Zero kWh

Scope 1 + Scope 2 carbon footprint in 2016 = 25878.33