

**Provide The Total Carbon Footprint (CO<sub>2</sub> emission in the last 12 months, in metric tons)**

(Source: www.carbonfootprint.com)

**The total Scope 1 and 2 carbon emissions in t CO<sub>2</sub>e (tonnes (t) of carbon dioxide (CO<sub>2</sub>) equivalent (e)  
Option 2: Recommended by UI GreenMetric**

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

$$\begin{aligned} &= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0,84 \\ &= \frac{2\,589\,734\text{ kWh}}{1000} \times 0,84 \\ &= 2175,37 \text{ metric tons} \end{aligned}$$

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

$$\begin{aligned} &= \frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= \frac{16 \times 1 \times 3 \times 240}{100} \times 0,01 \\ &= 1,152 \text{ metric tons} \end{aligned}$$

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

$$\begin{aligned} &= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,02 \\ &= \frac{120 \times 2 \times 3 \times 240}{100} \times 0,02 \\ &= 34.56 \text{ metric tons} \end{aligned}$$

**CO<sub>2</sub> (motorcycle)**

$$\begin{aligned} &= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= \frac{0 \times 2 \times 3 \times 240}{100} \times 0,01 \\ &= 0 \text{ metric tons} \end{aligned}$$

**CO<sub>2</sub> (total)**

$$\begin{aligned} &= 2175.37 + 1.152 + 34.56 + 0 \\ &= 2211.082 \text{ metric tons} \end{aligned}$$

**Carbon footprint = 2211.082 metric tons**

**Total Carbon Footprint (Auezov University)**

**Description:**

Due to the fact that the number of buses, cars, and motorcycles used at the M.Auezov South-Kazakhstan University is small, the total carbon footprint is small.

Scope 3 CO<sub>2</sub> emissions were not calculated by our university, so we cannot give data for this category.

**Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):**

<https://green.auezov.edu.kz/en>

**Provide the same figure for a baseline year:**

**Provide The Total Carbon Footprint (CO<sub>2</sub> emission in the last 12 months, in metric tons)**

(Source: www.carbonfootprint.com)

## 2020 year

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

$$\begin{aligned} &= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0,84 \\ &= \frac{4,264,556 \text{ kWh}}{1000} \times 0,84 \\ &= 3,582.227 \text{ metric tons} \end{aligned}$$

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

$$\begin{aligned} &= \frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= \frac{0 \times 0 \times 3 \times 240}{100} \times 0,01 \\ &= 0 \text{ metric tons} \end{aligned}$$

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

$$\begin{aligned} &= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,02 \\ &= \frac{100 \times 2 \times 3 \times 240}{100} \times 0,02 \\ &= 28.8 \text{ metric tons} \end{aligned}$$

### CO<sub>2</sub> (motorcycle)

$$\begin{aligned} &= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= \frac{0 \times 2 \times 3 \times 240}{100} \times 0,01 \\ &= 0 \text{ metric tons} \end{aligned}$$

### CO<sub>2</sub> (total)

$$\begin{aligned} &= 3,582.227 + 0 + 28.8 + 0 \\ &= 3,611.027 \text{ metric tons} \end{aligned}$$

**Carbon footprint in 2020 = 3,611.027 metric tons**

Carbon Footprint

### Description:

Due to the fact that the number of buses, cars, and motorcycles used at the university is small, the total carbon footprint is small.