

## Asfendiyarov KazNMU

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

(Source: [www.carbonfootprint.com](http://www.carbonfootprint.com))

#### 2024 year

$$\begin{aligned}\text{CO}_2(\text{electricity}) &= \frac{\text{electricity usage per year (kWh(kwv))}}{1000} * 0.84 = \\ &= \frac{2025430 (kwv)}{1000} * 0.84 = 1701.361\end{aligned}$$

$$\begin{aligned}\text{CO}_2(\text{bus}) &= \frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel}}{\text{distance of vehicle each day inside campus only (KM)} \times 240} * 0.01 = \\ &= \frac{1 * 1 * 1 * 240}{100} * 0.01 = 0.024 \text{ metric tons}\end{aligned}$$

$$\begin{aligned}\text{CO}_2(\text{cars}) &= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} * 0.02 \\ &= \frac{8 * 2 * 1 * 240}{100} * 0.02 = 0.768 \text{ metric tons}\end{aligned}$$

$$\text{CO}_2(\text{total}) = 1701.61 + 0.024 + 0.768 = 1702.402 \text{ metric tons}$$

**Carbon footprint of Asfendiyarov KazNMU in 2024 = 1702.402 metric tons**

#### Description:

Due to the fact that the number of buses, cars, and motorcycles used at the Asfendiyarov Kazakh National Medical University is small, the total carbon footprint is small.