

Information on greenhouse gas emissions of Non-profit joint-stock company «Zhetysu University named after Ilyas Zhansugurov» based on the results of 2025

Non-profit joint-stock company «Zhetysu University named after Ilyas Zhansugurov(hereinafter referred to as the University) Actively works to estimate and reduce its greenhouse gas (GHG) emissions in accordance with the corporate GHG Protocol standard. This standard is one of the most widely used for accounting and reporting greenhouse gases, including carbon dioxide (CO₂), methane (CH₄) and nitrous oxide (N₂O). As part of this policy, the University strives for transparency in sustainable development and minimization of its carbon footprint.

Methodology for estimating emissions

The University applies several key standards under the GHG Protocol:

1. **Corporate standard:** An organization-wide assessment of emissions.
2. **Standard for accounting for project emissions:** Estimate project-specific emissions and reductions.
3. **Standard for accounting for emissions in the supply chain:** Accounting for supply chain-related emissions.

In addition, the University can use the ISO 14064 standard, which provides requirements and guidance on the amount and reporting of greenhouse gases at the level of organizations and projects.

2024 emission estimate

In 2024, the University conducted an inventory of its GHG emissions, the results of which are presented below:

1. CO₂ emissions from electricity:

$$1. CO_2 \text{ (electricity)} = (1000 \text{ electricity usage per year (kWh)}) \times 0,84 \\ = (1000 \times 356955) \times 0,84 = 297,98 \text{ metric tons}$$

2. CO₂ emissions from cars:

$$CO_2 \text{ (cars)} = (\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240) / 100 \times 0,02 \\ = (2000 \times 2 \times 5 \times 240) / 100 \times 0,02 = 5,1 \text{ metric tons}$$

3. Total CO₂ emissions:

$$CO_2 \text{ (total)} = CO_2 \text{ (electricity)} + CO_2 \text{ (cars)} = 297,98 + 5,1 = 303,08 \text{ metric tons}$$

Thus, the University's carbon footprint in 2025 was **303.08 metric tons**.

Goals for the period 2023 to 2029

The University sets the following goals for reducing GHG emissions:

1. Reduce total emissions by **10%** by the end of each year.
2. Increase the share of renewable energy use to **30%** by the end of the period.
3. Conduct regular training programs for students and staff on sustainable development and reducing the carbon footprint.

Non-profit joint-stock company «Zhetysu University named after Ilyas Zhansugurov is committed to active participation in global efforts to combat climate change. The policy for estimating greenhouse gas emissions for the period from 2023 to 2029 is aimed at creating a sustainable educational environment and creating an environmentally responsible society. The University will continue to work to improve its environmental performance and reduce its carbon footprint.