



Volgograd State University report on SDG13



The University annually collects the data on low carbon energy use:

Total energy used: 9 530 GJ

Total energy used from low-carbon sources: 7 147 GJ

CO₂ (electricity)

$$= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0,84$$

$$= \frac{2,752,489 \text{ kWh}}{1000} \times 0,84$$

$$= 2,312.09 \text{ metric tons}$$

CO₂ (bus)

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

$$= \frac{1 \times 4 \times 0,8 \times 240}{100} \times 0,01$$

$$= 0.08 \text{ metric tons}$$

CO₂ (cars)

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

$$= \frac{270 \times 2 \times 0,5 \times 240}{100} \times 0,02$$

$$= 12.96 \text{ metric tons}$$

CO₂ (motorcycle)

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

$$= \frac{2 \times 2 \times 0,5 \times 240}{100} \times 0,01$$

$$= 0.048 \text{ metric tons}$$

CO₂ (total)

$$= 1,371.96 + 270 + 960 + 960$$

$$= 3,561.96 \text{ metric tons}$$

Carbon footprint in 2019=2,325.178 metric tons



There are educational programmes Ecology & Nature Management, Technosphere Safety, Earth Sciences, Industrial Ecology and Biotechnologies at the department of Ecology and Nature Management which have disciplines directly related to climate change risks, impacts, mitigation, adaptation, impact reduction and early warning.

Also the Student Ecological Society "Ecoinitiative" was established on the basis of this department to support, promote and implement student's initiatives in the field of environmental protection and climate action.



VolSU contributed to the government SDG policy by developing the Strategic Plan for Sustainable Development of Volgograd until 2025, which contains the climate action points with the planning for climate change disasters.

VolSU informs and supports local and regional government organisations in local climate change risk early warning and monitors the environmental state of Volga-Akhtuba Floodplain.

VolSU contributes to policy of Greenhouse Gas Emission. The scope 1 is achieved because we don't use diesel and burning coal. University is using energy efficient appliances and is planning to use energy from renewable resources in order to achieve scope 2.

VolSU sustainability website is available, accessible, and updated regularly <https://sustainability.volsu.ru/en/>

TARGET 13-2



INTEGRATE CLIMATE CHANGE MEASURES INTO POLICIES AND PLANNING

TARGET 13-B



PROMOTE MECHANISMS TO RAISE CAPACITY FOR CLIMATE PLANNING AND MANAGEMENT

TARGET 13-1



STRENGTHEN RESILIENCE AND ADAPTIVE CAPACITY TO CLIMATE RELATED DISASTERS

TARGET 13-3



BUILD KNOWLEDGE AND CAPACITY TO MEET CLIMATE CHANGE

