Carbon Emissions Reporting at AzTU in Alignment with the GHG Protocol Corporate Standard 2026

Azerbaijan Technical University (AzTU) continues to strengthen its commitment to sustainability and environmental responsibility. This report outlines the University's approach to measuring, reporting and managing greenhouse gas (GHG) emissions, drawing on the GHG Protocol Corporate Standard. By monitoring energy use and reporting emissions across Scopes 1, 2 and 3, AzTU can track its environmental performance and identify opportunities to improve energy efficiency and reduce emissions across campus operations.
Building on its 2025 emissions inventory of 7,180 metric tonnes of carbon dioxide equivalent (tCO_2e), AzTU's 2026 scenario targets a 5.82% reduction in total emissions. This represents a decrease of 417.72 tCO_2e to 6,762.28 tCO_2e. AzTU will assess progress against this target using full-year activity data and applicable emission factors.

Carbon Emissions Reporting Standard

AzTU uses the GHG Protocol Corporate Standard as the framework for classifying and reporting greenhouse gas emissions. Scope 1 covers direct emissions from sources the University owns or controls, including on-site fuel combustion and energy generation. Scope 2 covers indirect emissions from purchased energy, including electricity, heat and steam. Scope 3 covers other indirect emissions associated with commuting, business travel, waste management and supply chain activities. These groupings help AzTU compare emissions over time and identify where reductions are possible.

Emission Scope	Description	2026 Emissions Target (tCO_2e)	Percentage of Total Emissions
Scope 1	Direct emissions from owned or controlled sources, including fuel combustion and on-campus energy generation.	2,216.05	32.77%
Scope 2	Indirect emissions from the generation of purchased electricity, heat or steam.	2,653.35	39.24%
Scope 3	Other indirect emissions, including commuting, business travel, waste management and supply chain activities.	1,892.88	27.99%
Total	**Combined Scope 1, Scope 2 and Scope 3 emissions.**	**6,762.28**	**100.00%**

Carbon Emissions Comparison 2025 vs. 2026

Scope	2025 (tCO_2e)	2025 share	2026 target (tCO_2e)	2026 share	Change (tCO_2e)	Change (%)
Scope 1	2,350	32.73%	2,216.05	32.77%	-133.95	-5.7%
Scope 2	2,850	39.69%	2,653.35	39.24%	-196.65	-6.9%
Scope 3	1,980	27.58%	1,892.88	27.99%	-87.12	-4.4%
Total	**7,180**	**100.00%**	**6,762.28**	**100.00%**	**-417.72**	**-5.82%**

The comparison applies the 2026 reduction rates to the corresponding 2025 reported scope totals. Each scope's share uses the total for the corresponding year. The 2026 values are planning targets.

Key Insight on Total Emissions Reduction

Indicator	2025 (tCO_2e)	2026 target (tCO_2e)	Change (tCO_2e)	Change (%)
Total emissions	7,180	6,762.28	-417.72	-5.82%

Key Insight by Scope

Scope	2025 (tCO_2e)	2026 target (tCO_2e)	Change (tCO_2e)	Change (%)
Scope 1	2,350	2,216.05	-133.95	-5.7%
Scope 2	2,850	2,653.35	-196.65	-6.9%
Scope 3	1,980	1,892.88	-87.12	-4.4%

Scope 2 accounts for the largest share of the 2026 target (39.24%) and the largest planned reduction (196.65 tCO_2e). Scope 1 contributes 133.95 tCO_2e of the reduction and Scope 3 contributes 87.12 tCO_2e.

Data Collection and Measurement

AzTU draws primarily on university records for its greenhouse gas emissions inventory. Scope 1 sources include natural gas and fuel consumption records, university vehicle fuel logs and refrigerant service records where applicable. Scope 2 sources include monthly electricity meter readings and utility bills by facility, together with records for any purchased heat, steam or cooling. Electricity calculations document the emission factor, its source and its reference year.

Scope 3 estimates draw on student and staff commuting surveys, business travel records, waste collection and treatment records, and procurement registers, depending on data availability. Facility and meter registers document coverage of teaching buildings, laboratories, student residences and other sites. AzTU supplements these records with previous emissions reports, published emission factors and relevant GHG Protocol guidance. The 2026 targets apply the planned reductions to the published 2025 scope totals.

Emission Reduction Strategies

- **Energy Efficiency Programs.** Prioritize LED lighting, energy controls and building upgrades that reduce electricity or fuel demand.
- **Renewable Energy Integration.** Assess opportunities to expand campus solar generation and increase the share of renewable energy.
- **Sustainable Transportation.** Promote public transport, cycling and carpooling, and improve the data collected on staff and student travel.
- **Waste Reduction and Recycling.** Improve waste separation and track collected volumes and treatment routes.

Reporting and Compliance

The year-end review will compare actual 2026 emissions with the 2025 baseline and the scenario target. The review will check supporting records, confirm consistency in reporting boundaries and document material changes in methods or data coverage.

Future Commitments

As part of its long-term climate strategy, AzTU aims to cut total emissions by 40% by 2030, as stated in its 2025 Carbon Emissions Report, and to increase the share of renewables in campus energy use. The University plans to expand sustainability teaching and research, involve its campus community and external partners, and improve digital tools for monitoring emissions.

The GHG Protocol Corporate Standard provides a framework for tracking and communicating progress.

Sources

Azerbaijan Technical University. Carbon Emissions Report 2025. Source for the reported baseline, scope descriptions and long-term commitments.

GHG Protocol. Corporate Accounting and Reporting Standard. Reference for the inventory framework.