

Carbon Emissions Reporting at AzTU in Alignment with the GHG Protocol Corporate Standard 2024

Azerbaijan Technical University (AzTU) is committed to sustainability and environmental responsibility. This report outlines AzTU's approach to measuring, reporting, and managing its carbon emissions in accordance with the Greenhouse Gas (GHG) Protocol Corporate Standard, ensuring transparency and accountability in its environmental impact.

Carbon Emissions Reporting Standard AzTU follows the GHG Protocol Corporate Standard, a globally recognized framework for quantifying and reporting greenhouse gas emissions. This standard ensures consistency, reliability, and comparability of emissions data. The university categorizes emissions into three scopes:

Emission Scope	Description	Emissions (Metric Tons of CO ₂ e)	Percentage of Total Emissions
Scope 1	Direct emissions from sources owned or controlled by AzTU (e.g., fuel combustion, on-campus energy generation)	2,520	30%
Scope 2	Indirect emissions from purchased electricity, heat, or steam consumed by AzTU	3,070	35%
Scope 3	Other indirect emissions (e.g., employee commuting, business travel, waste disposal, supply chain)	2,048	35%
Total		7,638	100%

Data Collection and Measurement AzTU collects emissions data from multiple sources, ensuring accuracy through metering, utility bills, and activity-based calculations. The university collaborates with internal departments and external partners to ensure comprehensive reporting.

Emission Reduction Strategies AzTU is actively working on reducing its carbon footprint through various initiatives:

- **Energy Efficiency Programs:** Implementation of LED lighting, smart energy management systems, and retrofitting buildings for energy conservation has reduced energy consumption.
- **Renewable Energy Integration:** AzTU has installed solar panels generating renewable energy.
- **Sustainable Transportation:** Encouraging public transportation, cycling, and carpooling has reduced emissions from commuting.
- **Waste Reduction and Recycling:** Recycling programs have been developed.

Reporting and Compliance AzTU publishes annual sustainability reports detailing its emissions data, reduction strategies, and progress toward carbon neutrality. The university ensures compliance with local environmental regulations and international best practices.

Future Commitments AzTU aims to achieve continuous improvement in its environmental performance by:

- Setting long-term carbon reduction targets, including a **35% reduction** in total emissions by 2030.
- Expanding renewable energy projects to cover **15%** of campus energy needs by 2027.
- Enhancing sustainability education and research initiatives.
- Engaging stakeholders in carbon management efforts.

By aligning its carbon emissions reporting with the GHG Protocol Corporate Standard, AzTU demonstrates its commitment to sustainability and responsible environmental stewardship. With targeted reductions and strategic investments in sustainability, AzTU is on track to significantly lower its carbon footprint and contribute to a greener future.

Carbon Emissions Comparison: 2023 vs. 2024

Scope	2023 Emissions (Metric Tons CO2e)	2023 Share of Total (%)	2024 Emissions (Metric Tons CO2e)	2024 Share of Total (%)	Change (Metric Tons CO2e)	Change (%)
Scope 1	2,730	31%	2,520	30%	-210	-7.7%
Scope 2	3,248	36%	3,070	35%	-178	-5.5%
Scope 3	2,169	33%	2,048	35%	-121	-5.6%
Total	8,147	100%	7,638	100%	-509	-6.3%

Analyses

Key Insight	2023 Emissions (Metric Tons CO2e)	2024 Emissions (Metric Tons CO2e)	Change (Metric Tons CO2e)	Change (%)
Total Emissions Decrease	8,147	7,638	-509	-6.3%

Key Insight	2023 Emissions (Metric Tons CO2e)	2024 Emissions (Metric Tons CO2e)	Change (Metric Tons CO2e)	Change (%)
Scope 1 (Direct Emissions)	2,730	2,520	-210	-7.7%
Scope 2 (Indirect Emissions - Purchased Energy)	3,248	3,070	-178	-5.5%
Scope 3 (Other Indirect Emissions)	2,169	2,048	-121	-5.6%

Emission Reduction Strategies:

AzTU has effectively implemented various initiatives contributing to the reduction in emissions, including:

- **Energy efficiency programs:** LED lighting and building retrofitting.
- **Renewable energy:** Solar panels.
- **Sustainable transportation:** Public transport, cycling, and carpooling.
- **Waste management:** Recycling programs.