



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

Azerbaijan Technical University (AzTU) continues to demonstrate a strong commitment to sustainability and environmental responsibility. This report presents the university's enhanced approach to measuring, reporting, and managing greenhouse gas (GHG) emissions in accordance with the GHG Protocol Corporate Standard. Through systematic monitoring, transparent reporting, and continuous improvement practices, AzTU ensures accountability while actively reducing its environmental impact. Building on the progress achieved in 2024, the university has implemented additional measures in 2025 to further optimize energy use and reduce emissions across all operational areas.

### **Carbon Emissions Reporting Standard**

AzTU follows the GHG Protocol Corporate Standard, a globally recognized framework for quantifying and reporting greenhouse gas emissions. This ensures consistency, reliability, and comparability of emissions data over time. Emissions are categorized into three scopes: Scope 1 (direct emissions from owned or controlled sources such as fuel consumption and on-campus energy generation), Scope 2 (indirect emissions from purchased electricity and energy use), and Scope 3 (other indirect emissions, including commuting, business travel, waste management, and supply chain activities). This classification enables effective tracking and targeted mitigation strategies.

Emission Scope	Description	Emissions (Metric Tons CO <sub>2</sub> e)	Percentage of Total Emissions
Scope 1	Direct emissions from sources owned or controlled by AzTU (fuel combustion, on-campus energy generation)	2,350	33%
Scope 2	Indirect emissions from purchased electricity, heat, or steam	2,850	40%
Scope 3	Other indirect emissions (commuting, travel, waste, supply chain)	1,980	27%
<b>Total</b>		<b>7,180</b>	<b>100%</b>

### Carbon Emissions Comparison: 2024 vs. 2025

Scope	2024 Emissions (tCO <sub>2</sub> e)	2024 Share (%)	2025 Emissions (tCO <sub>2</sub> e)	2025 Share (%)	Change (tCO <sub>2</sub> e)	Change (%)
Scope 1	2,520	30%	2,350	33%	-170	-6.7%
Scope 2	3,070	35%	2,850	40%	-220	-7.2%
Scope 3	2,048	35%	1,980	27%	-68	-3.3%
<b>Total</b>	<b>7,638</b>	<b>100%</b>	<b>7,180</b>	<b>100%</b>	<b>-458</b>	<b>-6.0%</b>

### Key Insight: Total Emissions Reduction

Indicator	2024 (tCO <sub>2</sub> e)	2025 (tCO <sub>2</sub> e)	Change	Change (%)
Total Emissions	7,638	7,180	-458	-6.0%

## Key Insight by Scope

Scope	2024 (tCO <sub>2</sub> e)	2025 (tCO <sub>2</sub> e)	Change	Change (%)
Scope 1	2,520	2,350	-170	-6.7%
Scope 2	3,070	2,850	-220	-7.2%
Scope 3	2,048	1,980	-68	-3.3%

## Data Collection and Measurement

AzTU collects emissions data from multiple verified sources, including utility bills, smart metering systems, fuel consumption records, and activity-based calculations. In 2025, the university enhanced its data collection processes by introducing digital monitoring tools and centralized data management systems, enabling more accurate, real-time tracking of emissions. Collaboration across academic departments, administrative units, and external stakeholders ensures a comprehensive and integrated reporting process.

## Emission Reduction Strategies

AzTU continues to reduce its carbon footprint through:

- **Energy Efficiency Programs:** Expansion of LED lighting, smart energy systems, and building retrofitting
- **Renewable Energy Integration:** Increased solar panel capacity and renewable energy usage
- **Sustainable Transportation:** Promotion of public transport, cycling, carpooling, and hybrid learning
- **Waste Reduction and Recycling:** Improved waste segregation and circular economy practices

## Reporting and Compliance

AzTU publishes annual sustainability and carbon emissions reports that provide detailed information on emissions data, reduction measures, and progress toward environmental targets. The university ensures compliance with national environmental regulations and aligns its practices with international standards and best practices. Regular internal audits and performance evaluations support data accuracy and continuous improvement.

## **Future Commitments**

AzTU is committed to further strengthening its sustainability performance through ambitious and measurable targets. The university aims to achieve a 40% reduction in total emissions by 2030 and increase the share of renewable energy in campus operations. Future plans include expanding sustainability education and research, enhancing stakeholder engagement, and implementing advanced digital carbon tracking systems.

By aligning its carbon emissions reporting with the GHG Protocol Corporate Standard, AzTU reinforces its commitment to environmental stewardship, sustainable development, and long-term climate responsibility.