



Report on Sustainable Development Goal 11

Sustainable Cities and Communities

2025

11 SUSTAINABLE CITIES
AND COMMUNITIES



Foreword

This report presents a comprehensive overview of our university's ongoing dedication to Sustainable Development Goal 11 (SDG 11) in 2025, emphasizing the development of sustainable cities and communities. It highlights our latest initiatives, projects, and contributions aimed at preserving cultural heritage, promoting the arts, and integrating sustainable practices across our campus operations.

Introduction

In 2025, our university continues to advance Sustainable Development Goal 11 (SDG 11), focusing on creating sustainable, inclusive, and resilient communities. This report examines our efforts to enhance public access to cultural heritage, support artistic and cultural initiatives, and implement environmentally responsible practices within the campus, reflecting our commitment to shaping sustainable urban and campus environments.

References

[National Information Portal on Sustainable Development Goals of the Republic of Azerbaijan](#)

[AzTU Sustainability](#)

[AzTU SDG 11 Report / November 2023](#)

<https://www.aztu.edu.az/sdg/wp-content/uploads/2024/11/Report-on-SDG-11-2024.pdf>

[Ecological Thinking Begins at School – Green Mission](#)

[Training on Plastic Pollution Awareness and Bioplastic Production](#)

[AzTU and Dithari Technologies Sign MoU on DISC Innovation and Sustainability Lab](#)

[World Civil Defence Day Event Held at AzTU](#)

[AzTU Becomes a Full Member of AASHE](#)

[Artificial Intelligence in Universities – Change Is at Our Doorstep](#)

[Digital Medicine 4.0 Conference](#)

SDG 11 keywords - Sustainable cities and communities

Adaptable	Disaster Strategy	Local materials	Resilient	Sustainable urbanization
Adaptation	Disasters	Mitigation	Risk reduction strategy	Urban development
Affordable housing	Fine particulate matter	Natural disasters	Road safety	Urban planning
Air pollution	Green spaces	Natural heritage	Safe cities	Urban sustainability
Air quality	Heritage	Overcrowding	Shanty	Town planning
Cities	Housing	Pollution	Slums	Transport systems
Climate change	Human settlements	Population	Smart cities	Urban
Community	Impact of cities	Population growth	Solid waste	Urbanization
Cultural heritage	Inadequate housing	Public spaces	Suburban	Waste
Decentralization	Informal settlements	Public transport	Sustainable	Waste generation
Development planning	Infrastructure	Resilient buildings	Sustainable building/s	Waste management
Disaster management	Land	Resource efficiency	Sustainable cities/city	Water
Disaster risk reduction	Land consumption	Resource needs	Sustainable communities	Water related disasters

SDG 11 Targets

1. Support of Arts and Heritage

- Public access to culturally significant monuments and buildings.
- Engagement with local arts and community events.

2. Expenditure on Arts and Heritage

- Funding allocation for preserving cultural assets and supporting artistic initiatives.

3. Sustainable Practices

- Promoting sustainable commuting options for students and staff.
- Encouraging the use of renewable energy sources.

Statistics and Their Indicators

Indicator	2023	2024	2025	Change (2023–2025)
Campus energy efficiency (kWh per m ²)	148	136	121	–18.2 %
Waste recycled (%)	22 %	28 %	36 %	+14 pp
Green space coverage (m ² per person)	6.2	6.8	7.5	+21 %
Student participation in sustainability projects	820	1,050	1,380	+68 %
Faculty involved in sustainability research	43	52	61	+41 %
Annual CO ₂ reduction (tons)	128	152	176	+37.5 %
Community outreach programs conducted	9	14	19	+111 %
Active international sustainability partnerships	10	15	21	+110 %

SDG 11's Positive Impact on other SDGs

SDG 1 (No Poverty): Promoting affordable housing and inclusive urban services helps reduce urban poverty and improves living standards for low-income communities.

SDG 3 (Good Health and Well-being): Cleaner air, safe public spaces, efficient transport and proper waste management contribute to better physical and mental health for city residents.

SDG 4 (Quality Education): Developing accessible schools and safe transportation networks ensures that all children, including those in marginalized areas, can attend and benefit from education.

SDG 7 (Affordable and Clean Energy): Encouraging energy-efficient buildings and expanding access to clean energy in urban areas supports lower emissions and reduces energy-related inequalities.

SDG 8 (Decent Work and Economic Growth): Well-planned cities attract businesses, create job opportunities, and support sustainable economic development through efficient infrastructure and innovation.

SDG 13 (Climate Action): Sustainable urban planning reduces carbon emissions and enhances climate resilience by promoting green spaces, public transport, and low-emission development models.

Current situation

1. Green Campus and Environmental Awareness

- The “Ecological Thinking Begins at School – Green Mission” campaign engaged both students and faculty in urban greening and waste management activities. ([source](#))
- Workshops on plastic pollution awareness and bioplastic production were organized to promote sustainable consumption and environmental innovation. ([source](#))
- Waste segregation bins and energy-efficient lighting systems were expanded across campus facilities, contributing to a measurable reduction in annual energy consumption.

2. Sustainable Infrastructure and Innovation

- The DISC Innovation and Sustainability Lab was launched in partnership with Dithari Technologies, providing a platform for urban technology solutions and clean innovation. ([source](#))
- The university integrated smart building technologies and digital monitoring systems to enhance infrastructure efficiency and reduce its environmental footprint.

3. Resilience, Safety, and Community Engagement

- AzTU hosted events dedicated to World Civil Defence Day, emphasizing the role of safety, preparedness, and disaster resilience in community sustainability. ([source](#))
- Student-led volunteer groups collaborated with local NGOs and the Ministry of Science and Education to support community-driven sustainability projects.

4. International Cooperation and Knowledge Exchange

- AzTU's international collaborations with Pakistan, Türkiye, Germany, and Malaysia focused on sustainable engineering and green innovation.
- Conferences such as "Digital Medicine 4.0" and "Artificial Intelligence in Universities: Change Is at Our Doorstep" further integrated sustainability and innovation across disciplines.
- The university's membership in AASHE (Association for the Advancement of Sustainability in Higher Education) reinforced its global standing in sustainable higher education. ([source](#))

Future goals

1. **Develop Smart Campus Infrastructure:** Introduce renewable energy systems, including solar panel networks and smart energy management across university buildings.
2. **Enhance Waste Management and Circular Economy Practices:** Implement a full digital waste tracking system and expand bioplastic production pilot projects.
3. **Increase Community Engagement:** Partner with local schools and municipalities to scale the *Green Mission* initiative citywide.
4. **Advance Sustainable Transport:** Promote eco-friendly commuting through electric shuttle systems and bike-sharing programs.
5. **Establish a Center for Urban Sustainability and Climate Resilience:** Focus on research and policy development for sustainable city design and climate adaptation in Azerbaijan.

Conclusion

The 2025 period marked significant progress in AzTU's journey toward urban sustainability and community development.

By embedding sustainability principles into every aspect of university life—from curriculum design to infrastructure modernization—AzTU has positioned itself as a forward-thinking institution contributing meaningfully to **SDG 11**.

Through its innovative projects, community collaborations, and international partnerships, the university not only enhances its campus environment but also actively shapes the sustainable future of Azerbaijan's urban landscape.