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7 AFFORDABLE AND CLEAN ENERGY

SDG 7 AFFORDABLE AND CLEAN ENERGY

UZBEKISTAN STATE WORLD LANGUAGES UNIVERSITY

SDG 7: Affordable and Clean Energy — UzSWLU Progress Summary

Solar generation & storage | Energy efficiency |Greenhouse gas inventory | Responsible investment |Community & policy engagement| 2025

Uzbekistan State World Languages University (UzSWLU) advances affordable and clean energy by generating renewable electricity on its own campuses, applying energy-efficiency standards to construction and building operations, measuring its greenhouse gas emissions under an international accounting standard, aligning its investments with a transition away from fossil fuels, and bringing clean-energy education and policy discussion to students, staff, partner institutions and the wider public. The examples below summarize verified activity and policy documented by the University during 2025.



SUSTAINABLE DEVELOPMENT GOALS

Solar generation and storage

UzSWLU operates a 2,423-panel, 1,340 kW solar photovoltaic installation. Metered records with the Tashkent city electricity network show that between 1 January and 1 October 2025 the installation generated 1,363,600 kWh, of which 715,200 kWh was used on campus and 648,400 kWh was exported to the city grid, while 1,001,000 kWh was purchased from the grid. Extrapolated to a full year, this corresponds to approximately 1,818,133 kWh generated, 953,600 kWh used on site and 864,533 kWh exported, against 1,334,667 kWh purchased, for total University electricity consumption of 2,288,267 kWh. The University also operates a 2-ton solar water heating system, put into operation in mid-2023 and saving approximately 45 million UZS in natural gas costs per year, and a solar energy storage system, the first among Uzbekistan's higher education institutions, that can supply up to two hours of uninterrupted power.





SUSTAINABLE DEVELOPMENT GOALS

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Energy efficiency in buildings and operations

Renovations and new builds are governed by the University's SDG 7 Policy and Environmental Impact Assessment Policy under the oversight of the Green Campus Council, and are applied against Law No. ZRU-940 of 7 August 2024 on energy saving, its rational use and increasing energy efficiency. Construction is reviewed on site by University leadership: during on-site reviews of the new student dormitory, the Rector inspected engineering and utility systems, infrastructure, fire safety measures and energy efficiency. Existing buildings are monitored through a Smart Building Management System of 520 sensors across the six campuses on the Fusion Energy platform, operated by the Green Campus Council's eight-person Energy & Smart Building Unit. Utility and meter records, solar-generation data, fuel records and the annual greenhouse gas inventory are used in the University's energy-efficiency plan and energy reviews to identify high-consumption areas and prioritize upgrades such as LED lighting replacement and HVAC automation.

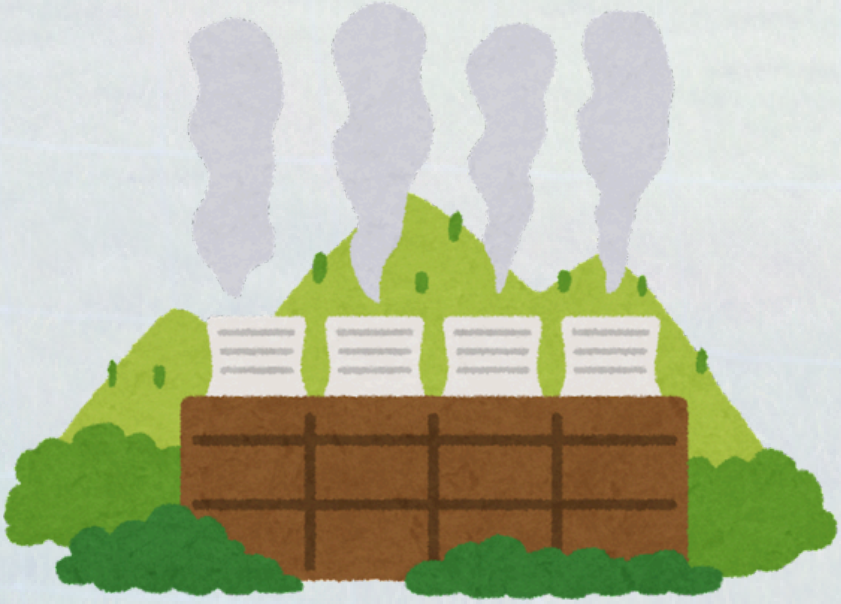




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Greenhouse gas inventory

Following the GHG Protocol Corporate Accounting and Reporting Standard, UzSWLU compiled an institutional greenhouse gas inventory for 2025 across its six campuses and a campus population of 24,058 (22,208 students and 1,850 staff). Total emissions are approximately 7,910 tCO2e: 139.75 tCO2e of direct emissions from fuel combustion and refrigerants (Scope 1, including a provisional refrigerant estimate); 675.34 tCO2e from purchased grid electricity (Scope 2, calculated with the 0.506 kg CO2e/kWh factor for the Uzbekistan national grid from the UNFCCC Standardized Baseline); and 7,095.16 tCO2e from staff and student commuting (Scope 3). Electricity generated by the University's own solar installation carries no purchased-electricity emissions, and the inventory informs the University's continuing energy-efficiency and renewable-energy program.





Responsible investment

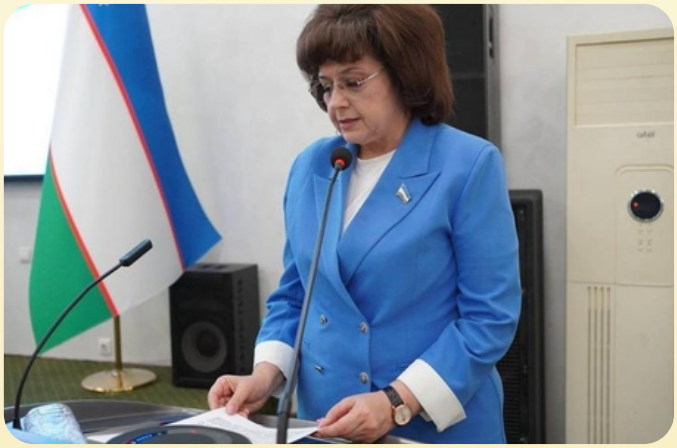
UzSWLU's Policy on Divesting Investments from Carbon-Intensive Energy Industries, approved in September 2021 and revised in August 2024, commits the University to avoid new investments in companies engaged in coal and oil extraction, to exit existing investments in such companies within three years of approval, to redirect funds toward green energy and sustainable technologies, and to publish annual information on implementation. The policy is publicly available on the University's website.





The University's Green University initiative provides a 20-hour blended training program for faculty and administrative staff, including modules on resource efficiency and green campus and on climate awareness, and the student-led EcoLingua society, with more than 150 active members, more than 48 sustainability events between 2022 and 2025 and more than 5,000 social-media reach, carries sustainability messages to students, youth and community audiences in multiple languages. On 30–31 May 2025, UzSWLU hosted the international scientific-practical conference “Modern Environmental Policy: From National Experience to Global Solutions,” with participants from the University of World Economy and Diplomacy, the SCO Public Diplomacy Center, the International Innovation Center for the Aral Sea Region, York University (Canada), RISEBA University (Latvia) and Osh State University (Kyrgyzstan), together with ministry representatives. Opening remarks identified green-energy development as a national priority
Community education, public advocacy and policy dialogue

under the Uzbekistan–2030 strategy, and the conference concluded with proposals and recommendations on environmental literacy and youth participation in environmental protection. On 7 April 2025, the Rector published an analysis of the President's policy book on the green development of Uzbekistan, examining the national goal of 54% renewable energy by 2030.





International conference "Modern Environmental Policy: From National Experience to Global Solutions," 30–31 May 2025

Key figure

UzSWLU's solar installation generated an estimated 1,818,133 kWh in 2025, of which 953,600 kWh was used on site and 864,533 kWh was exported to the city grid. Full-year figures are estimated from confirmed metered records for 1 January–1 October 2025.

