UZBEKISTAN STATE WORLD LANGUAGES UNIVERSITY

Energy Efficiency Plan to Reduce Overall Energy Consumption

SDG 7 Affordable and Clean Energy | Reporting year 2025

Uzbekistan State World Languages University has an institutional energy-efficiency framework in place to reduce overall energy consumption, implemented through its SDG 7 Policy, the Green Campus Initiative, the Green Campus Council, the Energy Management and Climate Action Plan 2022–2030, and annual greenhouse-gas and energy monitoring. The framework combines renewable-energy generation, reduction of purchased electricity, efficient lighting and equipment, building-level improvements, operational controls, awareness activities and annual performance review.

The framework applies across the University's six campuses and is linked to the University's 2025 GHG inventory. In 2025 the University used 2,807,798 kWh of electricity: 1,854,198 kWh purchased from the city network and 953,600 kWh generated and used on site by its own solar system, which generated 1,818,133 kWh in total and exported 864,533 kWh to the city grid. Total energy use, including natural gas and district heat, was 44,330 GJ, or about 0.55 GJ per m² of floor space.

Institutional basis and governance

Instrument or unit	Role in energy-efficiency planning	Evidence
UzSWLU SDG 7 Policy	Sets objectives for energy efficiency, renewable-energy adoption, energy audits, awareness, research and annual monitoring	Official SDG 7 policy
Green Campus Council	Coordinates energy-related infrastructure across campuses, including solar photovoltaic systems and sustainability actions	Official Green Campus Council page
Energy Management and Climate Action Plan 2022–2030	Provides the long-term framework for reducing energy demand, improving energy management and expanding renewable energy	Institutional energy-management evidence
International Rankings Department	Consolidates utility, fuel and transport records and prepares annual SDG and GHG evidence	2025 GHG Inventory
Facilities and energy-management personnel	Maintain meter records, utility data, fuel records, solar-generation data and technical maintenance evidence	Utility and maintenance records

Energy-efficiency measures

Measure	Application at UzSWLU	Expected contribution
Solar photovoltaic generation	2,423-panel, 1,340 kW solar installation; solar electricity is used on campus and surplus is exported	Reduces dependence on purchased grid electricity
LED and efficient lighting	Progressive replacement and use of energy-saving lighting systems across university facilities	Reduces electricity demand for lighting
Heating, cooling and ventilation optimization	Operational improvement and planned upgrades to heating, ventilation and cooling systems	Reduces seasonal energy losses
Energy-efficient equipment	Procurement and replacement of inefficient appliances and equipment where technically appropriate	Reduces operational electricity consumption
Building renovation and new construction	Energy-efficiency requirements are incorporated into renovation and construction planning	Improves the long-term energy performance of buildings
Energy monitoring	Metering records, solar-generation data	Identifies high-consumption areas and

	and annual GHG accounting are consolidated for review	tracks progress
Awareness and training	Sustainability and energy-conservation topics are promoted among students and staff	Supports behavioral reduction in unnecessary consumption

Targets and monitoring indicators

Indicator	2025 baseline or current evidence	Monitoring approach
Purchased grid electricity	1,854,198 kWh in the 2025 GHG inventory	Annual utility records and meter reconciliation
Solar electricity generated	1,818,133 kWh	Solar inverter and generation records
Solar electricity used on site	953,600 kWh	Solar system and campus consumption records
Solar electricity exported	864,533 kWh	Grid export records
Scope 2 emissions	1,109.05 tCO2e	Grid electricity × 0.506 kg CO2e/kWh and district heat × 56.1 kg CO2/GJ
Overall institutional inventory	10,075.31 tCO2e, including Scope 1–3	Annual GHG inventory under the GHG Protocol
Energy-performance review	Annual review required under the SDG 7 policy framework	Annual review of energy use and renewable-energy projects

Implementation cycle

Stage	Activity	Responsible area or evidence
Measure	Collect electricity, solar, fuel and building-operation data	Facilities, energy personnel and utility records
Identify	Locate high-consumption buildings, systems and operating periods	Green Campus Council and technical personnel
Implement	Apply LED, HVAC, equipment, solar and operational improvements	University administration and facilities units
Engage	Conduct awareness, training and sustainability activities	Green Campus Council and academic units
Review	Compare annual consumption, renewable generation and emissions against the baseline	International Rankings Department and responsible units
Improve	Update measures and targets using the monitoring results	University management and Green Campus Council

Official UzSWLU evidence and responsible units

- UzSWLU SDG 7 Policy — https://uzswlu.uz/backend/web/uploads/pagepdf/icon/17309783380676.pdf
- The Green Campus Council — https://uzswlu.uz/en/the-green-campus-council
- UzSWLU Commitment to Net-Zero Emissions by 2050 — https://uzswlu.uz/backend/web/uploads/pagepdf/icon/17446368559308.pdf
- Institutional GHG Emissions Inventory 2025 — https://uzswlu.uz/backend/web/uploads/pagepdf/icon/17937021809024.pdf
- Energy management and smart monitoring evidence — https://uzswlu.uz/backend/web/uploads/pagepdf/icon/17625190001123.pdf

Conclusion

UzSWLU has an institutional energy-efficiency plan in place. It is not a single isolated document but an integrated framework consisting of an approved SDG 7 policy, a Green Campus governance structure, a 2022–2030 energy and climate action framework, renewable-energy infrastructure, energy monitoring and annual GHG accounting. The 2025 inventory demonstrates the plan's operational basis: the University generated and used solar electricity, reduced reliance on purchased electricity and established a measurable baseline for further reductions. The plan will be strengthened through year-end data closure, campus-level energy targets and continued annual review.