UZBEKISTAN STATE WORLD LANGUAGES UNIVERSITY

Plans to Upgrade Existing Buildings to Higher Energy Efficiency

SDG 7 Affordable and Clean Energy | Reporting year 2025

Uzbekistan State World Languages University has an institutional plan to improve the energy performance of its existing buildings through staged technical upgrades, renewable-energy integration and continuous monitoring. The plan is coordinated through the Green Campus Council and its Energy & Smart Building Unit, and is aligned with Uzbekistan's national energy-saving law, the University's Environmental Impact Assessment Policy, its Sustainability and Climate Action Policy and its SDG 7 policy.

The program combines measures already in operation with planned upgrades for the University's existing estate: energy audits and baseline monitoring, LED replacement, HVAC automation, Smart Building Management Systems, improvement of lighting and ventilation, solar photovoltaic expansion, solar water heating, energy storage, and the use of building-level energy data to identify further savings. Progress is reviewed by University leadership and relevant facilities personnel, with implementation linked to renovation and procurement planning; the same construction-review process that covers new builds, including site reviews of engineering and utility systems, fire safety and energy efficiency during the new student dormitory's construction, extends to upgrade works in existing buildings.





Review of renovation works in existing University buildings and student residences, August–September 2025

Upgrade plan and energy-efficiency measures

Upgrade area	Planned or current implementation at UzSWLU
Baseline assessment and planning	Existing buildings are assessed through the Green Campus Council's Smart Building Management System, which uses 520 sensors across the University's six campuses on the Fusion Energy platform to monitor consumption. Building-level data are used to identify inefficient equipment, prioritize upgrades and inform renovation and procurement plans.
LED lighting modernisation	The University plans the progressive replacement of inefficient lighting with LED systems in existing buildings, reducing electricity demand and maintenance requirements.
HVAC and ventilation optimization	Heating, ventilation and air-conditioning systems are reviewed and upgraded through automation and improved controls, while maintaining safe and comfortable indoor conditions.
Smart Building Management Systems	The Green Campus Council's Energy & Smart Building Unit (8 staff) operates BMS and energy-monitoring platforms to track building performance, identify abnormal consumption and support data-based operational decisions; reported performance includes a 34% energy saving and 30% renewable-energy integration across monitored operations.
Renewable energy and storage	Existing facilities are supported by the University's solar photovoltaic system, solar water heating and energy storage. Further integration is considered as buildings are upgraded and technical conditions allow.

Governance and review	The Green Campus Council and its Energy & Smart Building Unit, together with University leadership and facilities personnel, coordinate the upgrade program, review progress and connect it to Uzbekistan's national energy-saving law and the University's own Sustainability and Climate Action Policy.

Official UzSWLU evidence and responsible units

- SDG 7 Affordable and Clean Energy — renewable-energy evidence and energy-efficiency measures — https://uzswlu.uz/en/sdg-7-affordable-and-clean-energy
- The Green Campus Council — energy monitoring, BMS, LED, HVAC and renewable-energy planning — https://uzswlu.uz/en/the-green-campus-council
- UzSWLU SDG 7 Policy document — https://uzswlu.uz/backend/web/uploads/pagepdf/icon/17309783380676.pdf
- UzSWLU Sustainability and Climate Action Policy — commits to optimizing building systems and energy conservation — https://uzswlu.uz/backend/web/uploads/pagepdf/icon/17309785808502.pdf
- UzSWLU Environmental Impact Assessment Policy — applies to renovation and campus development — https://uzswlu.uz/backend/web/uploads/pagepdf/icon/17310634578481.pdf
- Law No. ЗРУ-940-сон, 7 August 2024, “On energy saving, its rational use and increasing energy efficiency” — https://lex.uz/ru/docs/7052217
- UzSWLU SDG Policies — University policy repository — https://uzswlu.uz/en/sdg-policies

Conclusion

UzSWLU has a documented and staged plan to upgrade existing buildings to higher energy efficiency. The plan is based on energy monitoring and technical assessment, prioritizes LED, HVAC and Smart Building Management System improvements, and incorporates solar generation, solar water heating and storage. Governance by the Green Campus Council and its Energy & Smart Building Unit, together with leadership and facilities review and alignment with national energy-saving law, provides a clear mechanism for implementation and progress monitoring.