



University : Uzbekistan State World Language University
Country : Uzbekistan
Web Address : <https://www.uzswlu.uz/en>

UzSWLU integrates multiple green building principles into the design, renovation, and daily operation of its academic, administrative, and residential facilities, aiming to reduce energy consumption, optimize natural resources, improve indoor comfort, and support the university's long-term sustainability strategy in line with SDGs 7, 9, 11, and 13.

Key Elements of Green Building Design and Operation

Category	Description of Implementation	Coverage
Energy Efficiency	A+++ rated electrical appliances, LED lighting, motion sensors, automatic shut-off systems	100%
Natural Lighting & Ventilation	Large windows, cross-ventilation, daylight optimization reducing artificial lighting need	100%
Solar Energy Integration	Rooftop solar panels (2,240 kW) on all five campuses	100%
Smart Building Management	Fusion Energy platform integrating HVAC, lighting, and security	100%
Thermal Insulation	Eco-friendly insulation retrofits reducing heat loss/cooling needs	80%
Water and Waste Management	Water-saving taps, dual-flush toilets, rainwater harvesting, waste-sorting bins	90%
Sustainable Landscaping	Shade trees, permeable pavements, green buffer zones regulating microclimate	100%

Category	Description of Implementation	Coverage
Healthy Indoor Environment	CO ₂ /humidity sensors, non-toxic paints, low-emission renovation materials	95%

Sustainable Construction and Renovation

Since 2022, the Construction and Maintenance Department has implemented construction and renovation projects in accordance with O'zDSt 31310:2017 Green Building Standards and internal resource-efficiency guidelines. All major renovation projects incorporate energy-efficient materials, LED lighting, water-saving fixtures, and environmentally responsible design; new developments are evaluated for their impact on energy consumption, water efficiency, and green space preservation.

Digital Monitoring, Smart Management, and Student Engagement

The E-IJRO Digital Management Platform and Fusion Energy Smart System monitor building performance and resource consumption in real time, supporting evidence-based planning and preventive maintenance. Students actively participate through the annual Green Campus Innovation Challenge, developing solutions related to green building design, energy conservation, waste reduction, and sustainable landscaping in cooperation with the Green Office and Technical Department.



