Building Standards to Minimize Water Use

SDG 6 Water-efficient building standards | Reporting year 2025

UzSWLU applies building standards that minimize water use in the design, construction and renovation of its facilities. National design norms set the baseline for water systems in higher-education buildings, and the University's own Eco-Construction and Green Infrastructure Policy (Order No. 34/2024) adds specific water-efficiency requirements for all new and renovated buildings.

National standards applied

- **ShNK 2.08.02-09* "Public buildings and structures", Section 5 (engineering equipment of higher-education buildings).** Requires cold and hot water and sewer systems to be designed under KMK 2.04.01, sets design flow rates for laboratory fixtures, and requires recirculating (closed-loop) water supply for equipment that needs cooling, so that cooling water is reused rather than discharged.
- **GNP 2.08.02-23 "Public buildings and structures".** Approved by order No. 01/2-7 of the Minister of Construction and Housing and Communal Services on 2 April 2024 and in force since 7 August 2024; this code replaced ShNK 2.08.02-09* and applies to University projects designed after that date.

University standard for water-saving equipment

Under Order No. 34/2024, every new or renovated University building must install certified water-saving equipment, and at least 80% of fixtures in new and renovated facilities must meet the water-efficiency specifications below:

- Dual-flush toilets (3/6 liters);
- Sensor-operated or low-flow washbasin taps;
- Aerated, low-flow showers in dormitories and sports facilities;
- Water-efficient kitchen taps and drinking water dispensers.

Fixture coverage across campus

Fixture type	Total units	Water-efficient units	Coverage
Toilets (dual flush 3/6 L)	250	225	90.0%
Washbasin taps (sensor / low-flow)	150	142	94.7%
Showers (aerated, low-flow)	80	74	92.5%
Kitchen taps	50	46	92.0%
Drinking water dispensers	40	38	95.0%
Total	**570**	**525**	**92.1%**

The replacement of inefficient fixtures followed a campus-wide water infrastructure audit conducted in 2024.

Evidence

- Building code extract (ShNK 2.08.02-09*, Section 5): https://uzswlu.uz/backend/web/uploads/pagepdf/icon/16741176703456.pdf
- GNP 2.08.02-23 approval order (lex.uz): https://lex.uz/docs/6920044
- Water-Efficient Appliances report: https://uzswlu.uz/backend/web/uploads/pagepdf/icon/17840466232210.pdf