

SMART COMFORT SYSTEM (2023-2028) INTERNATIONAL UNIVERSITY OF TOURISM AND ENTREPRENEURSHIP OF TAJIKISTAN

Annotation. The Smart Comfort System Program (2023–2028) at the International University of Tourism and Entrepreneurship of Tajikistan is aimed at enhancing energy efficiency and improving indoor comfort across campus buildings through the integration of intelligent automation technologies. With the introduction of a new campus equipped with motion, light, and climate sensors, the university became the first institution in Tajikistan to apply smart building principles in higher education. The program expands these systems to all academic and administrative facilities, enabling centralized energy management and reducing the campus's overall carbon footprint.

Key measures include adaptive lighting systems, automated heating and ventilation with smart thermostats, CO₂ and air quality monitoring sensors, and AI-based optimization algorithms integrated into the iU-Energy centralized management platform. By 2028, the program targets a 30% reduction in climate-control energy consumption, full campus-wide automation coverage, and a 25% decrease in CO₂ emissions.

The initiative contributes to SDG 7 (Affordable and Clean Energy), SDG 9 (Industry, Innovation and Infrastructure), SDG 11 (Sustainable Cities and Communities), and SDG 13 (Climate Action) by creating a technologically advanced, energy-efficient, and environmentally sustainable campus environment.

The translation was carried out by the Research Institute for Sustainable Development and Green Economy at the International University of Tourism and Entrepreneurship of Tajikistan.

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