

The European Union – Uzbekistan: Sustainable Energy Days 2024
Sustainable Energy Future for Uzbekistan: Lectures on Energy Efficiency in
Buildings
Tashkent, 20 November 2024

**Prospects and challenges of sustainable / green building certification in
Uzbekistan**

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Development of green construction in Uzbekistan:

New Tashkent – an example of the formation of new green cities in Uzbekistan



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Silk Road – goods, people, ideas



Silk Road – rest areas, « service centers », caravan sarais



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Central Asia – a land of oases



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Oasis – an ecosystem in balance



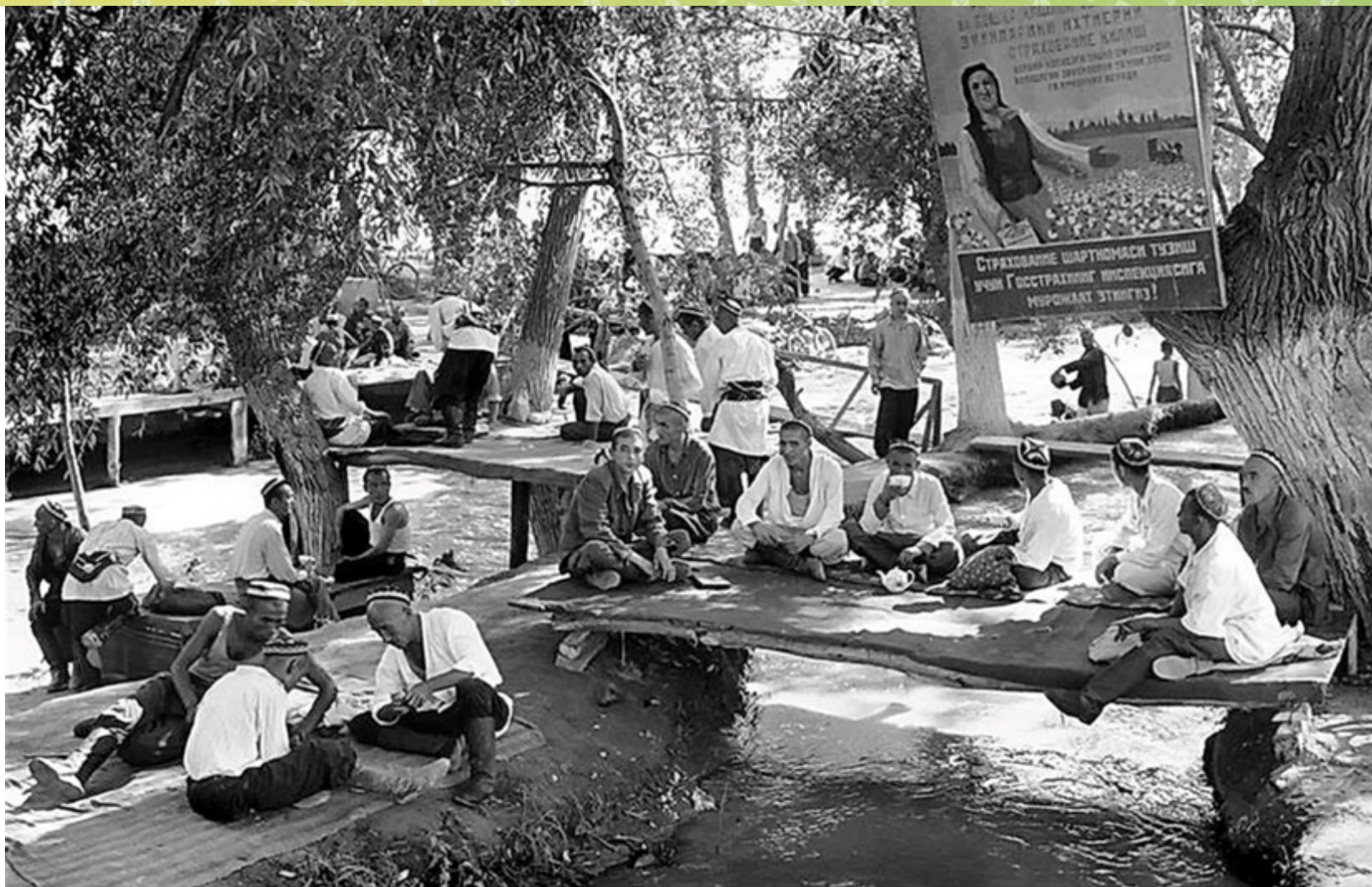
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People learned how to create comfortable living conditions while maintaining a balance with the ecosystem



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Makhalla – a traditional community, critical for maintaining a balance



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Oases – water diplomacy



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NGO Green Building Council of Uzbekistan (est. 2019)



Mission:

To advance green building, energy efficiency, efficient use of water, and sustainable development

Main directions of work:

- Green Schools programs
- Professional educational events for students
- Educational events for the industry and government officials
- Informational sessions for the general public

UzGBC: Our achievements



Green Schools Program

Since our first pilot in 2019, we have reached over 6,000 students, and their families, focusing on behavioral strategies in energy efficiency, recycling, and efficient use of water

Educational and informational events

From 2019 to 2024, together with various partner organizations, we organized over 50 seminars, webinars, lectures, and workshops

Green Schools Program: Behavioral Change Strategies



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Pioneers of the construction industry

IT Techno Park (Tashkent, Uzbekistan):

- The first office buildings to achieve BREEAM “Very Good” certification for the design
- Examples of strategies: energy efficient windows, bicycle infrastructure, EV chargers, rainwater collection



Pioneers of the construction industry

Trilliant Complex (Tashkent, Uzbekistan):

- The first building complex to achieve LEED Gold certification
- Examples of strategies: recycling, bicycle infrastructure, EV chargers, public green zones, building automation system



New Tashkent: the most ambitious urban development project in Central Asia



Total Area: 25,000 hectares

Phase 1: 6,000 hectares

Population: 600,000 people

Administrative, commercial, residential, social, advanced industrial, and other types of buildings

New Tashkent: Oasis



Continuous public access green zones cover over 23% of the land

Total green area will make up over 30% of New Tashkent's territory

Green and water carcass at the core of the new city

New Tashkent: Green Building Standards



BREEAM Rating Benchmarks

RATING	%
Outstanding	≥ 85
Excellent	≥ 70
Very Good	≥ 55
Good	≥ 45
Pass	≥ 30
Unclassified	< 30



New Tashkent: Energy efficiency, water efficiency, and renewable energy



Energy Efficiency Requirements:

- Each building category has its EUI (Energy Use Intensity), measured in kWh/ sq m/ year



Requirements for efficient water use:

- Each building category has its WUI (Water Use Intensity), measured in cubic m/ sq m/ year



Rainwater Collection & Reuse Requirements:

- Buildings are required to collect some of the rainwater and reuse it for irrigation

Closing Remarks

- Much has been accomplished, especially over the last 4-5 years
- Uzbekistan faces challenges, a shortage of experts is probably the most urgent
- For Uzbekistan, going green is not just a trend or a fashion statement – it is a vital necessity
- We need to look at sustainability and green economy as an opportunity for a leapfrog effect, rather than an obstacle to Uzbekistan's development

THANK YOU

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