



## The European Union – Uzbekistan: Sustainable Energy Days 2024

Sustainable Energy Future for Uzbekistan: Lectures on Energy Efficiency in Buildings

Tashkent, 20 November 2024

## Accelerating Buildings' Decarbonization: Lessons Learned from the CCFLA Central Asia Hub

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## Why the Central Asia Hub?

- Central Asia has experienced major climate warming already,
   +2°C average vs 1.1/1.2°C globally
- Air pollution, floods, droughts, volatile weather patterns
- Average temperatures forecasted to increase by 5.7°C by 2085 in Central Asia



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## Investing in buildings is crucial to enter a net zero emissions path

The buildings sector is one of the main sources of GHG emissions in Central Asia

40% overall



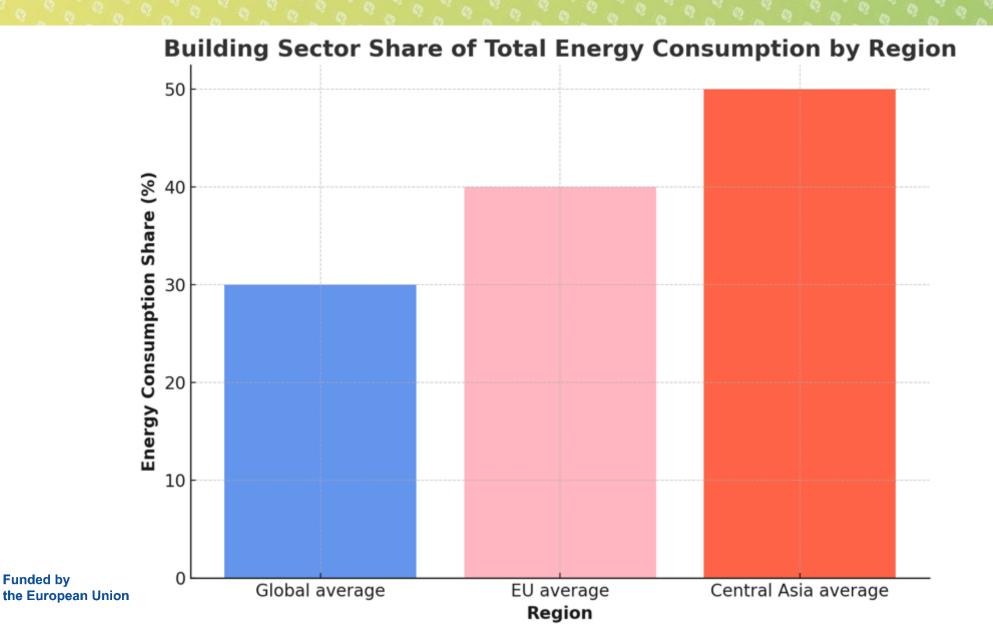
Bukhara, Uzbekistan







## As a result, energy consumption is also very high



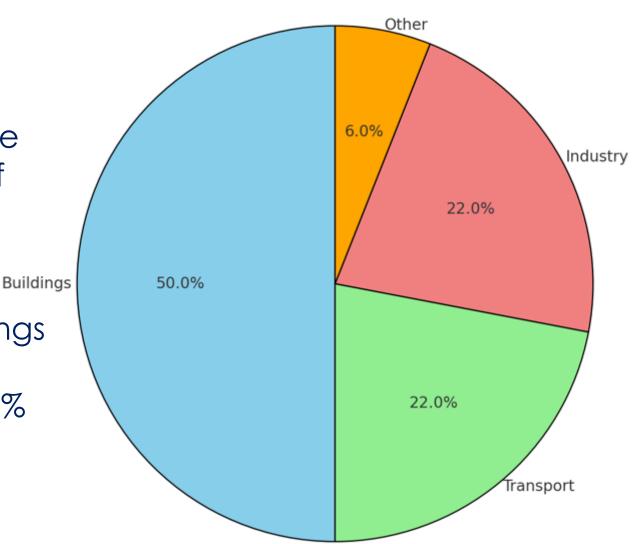
CCFLA, 2024

## Uzbekistan has the highest energy intensity in Central Asia

#### Total Final Energy Consumption by Sector in Uzbekistan

 Buildings consume more than 50% of the total final energy

 Residential buildings alone are responsible for 39%





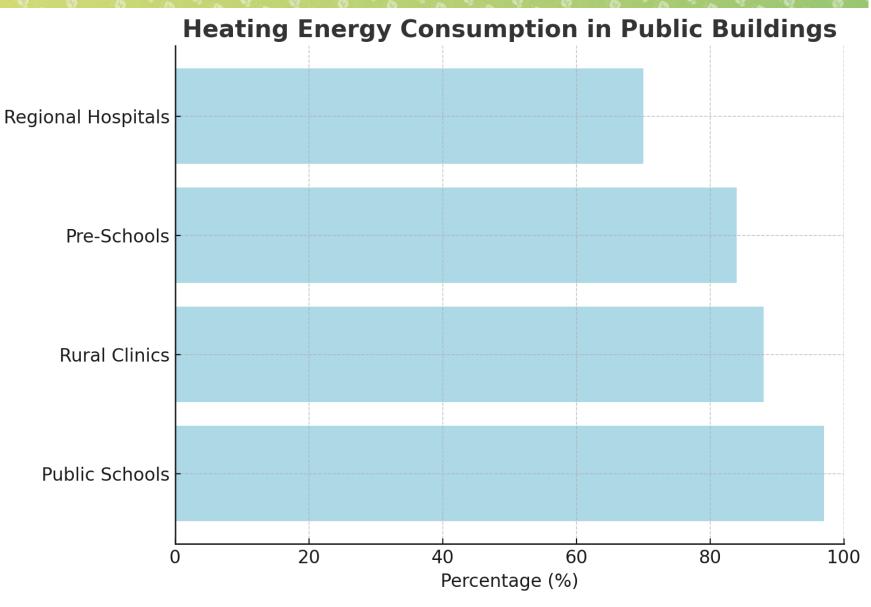


World Bank, 2022

# Economy-wide, Uzbekistan uses 5 times more heat than the global average, per unit of GDP

World Bank, 2022

 In public buildings in Uzbekistan, heating is responsible for the wide majority of energy consumption





### What are main the reasons for this?

- Major energy losses due to poor thermal insulation in building envelopes
- Inefficient management of heating units
- Energy losses from outdated infrastructure networks
- Lack of meters and thermostatic valves in buildings



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## The Central Asia Hub aims to investments for the decarbonization of the building sector in cities



#### **Central Asia**

- Countries: Kazakhstan & Uzbekistan
- Sector: Buildings decarbonization (energy efficiency, renewable energy)
- Typology: Buildings' Renovation





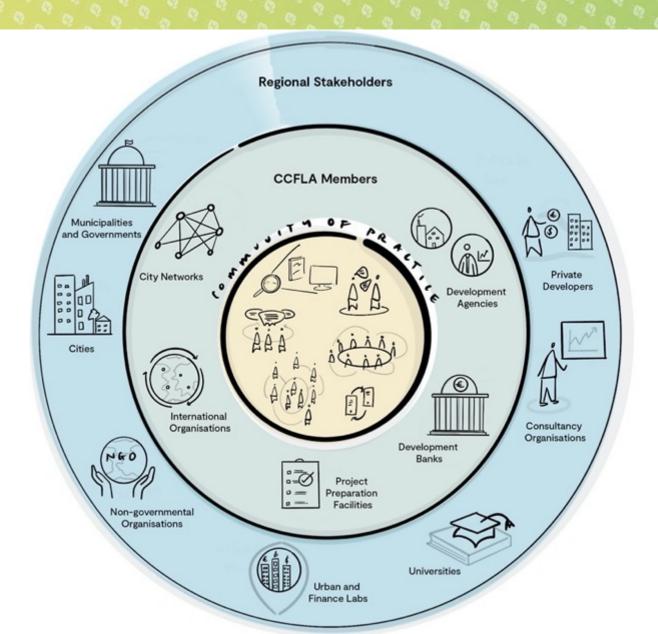


on the basis of a decision by the German Bundesta





## How do we achieve that?







## Regional collaboration for shared challenges

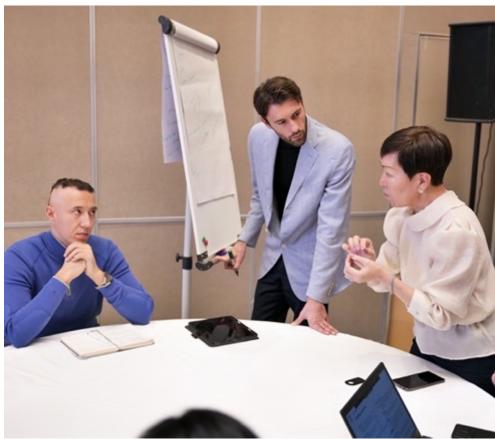
By fostering **connection and collaboration**, Central Asia Hub stakeholders can:

- Identify knowledge and capacity gaps
- Share region-specific insights, best practices, solutions
- Identify and unlock synergies for action





## Examples of our collaborative work



Central Asia Hub collaboration on the creation of a **Virtual Course for the preparation of green buildings projects** at the Astana Energy Forum – November 2023



Cities Project Preparation and Finance in Central Asia: Hub Forum Uzbekistan 2025

FINANCE FINANCE LEADERSHIP ALLIANCE

CCFLA Central
Asia Hub
Final
Roundtable

29 October 2024

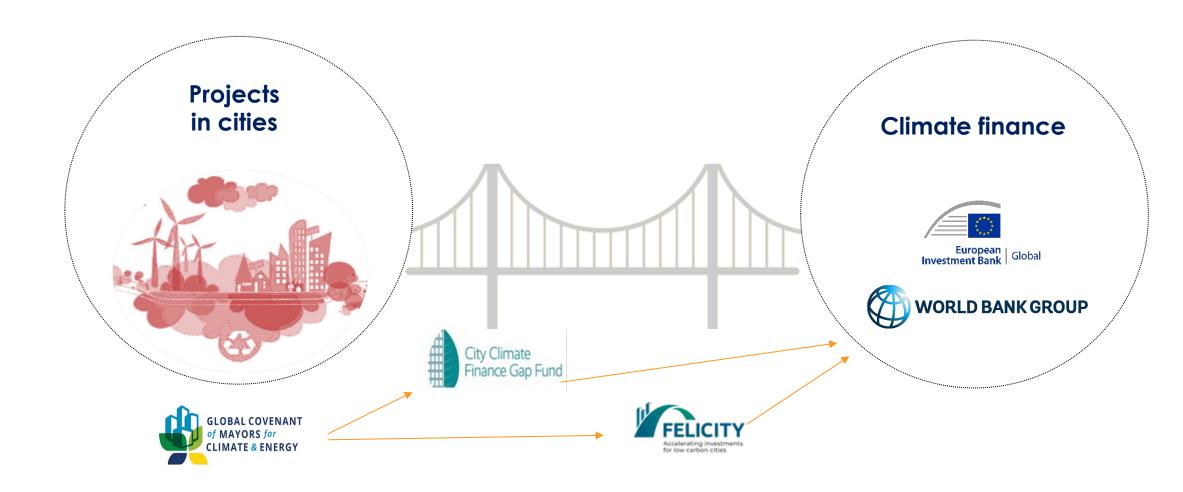


Central Asia Hub partners discuss **gaps and solutions for project pipelining in Uzbekistan** through an online Roundtable – October 2024





## Through collaboration, we unlock synergies for action







### Lessons learned from the Central Asia Hub – demand side

#### Cities need assistance in:

- Identifying and developing building projects (e.g., walk-through energy audits, financial planning, architectural design, etc.)
- Gathering national governments' political support
- Navigating financing opportunities







## Lessons learned from the Central Asia Hub – supply side

#### Financial institutions need:

- Cities-driven political will and ownership for building renovation projects
- Adequate national institutions' set-ups and buy-in
- Finance-ready projects at scale









## CCFLA Central Asia Hub Forum in Tashkent – mid-February 2025!

You are welcome to join us!



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