

WORKSHOP ENERGY LABELLING OF BUILDINGS AND COST-OPTIMAL LEVEL CALCULATIONS 29 April 2025 – Online, Zoom

The European Union's experience in energy efficiency and certification of buildings

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General information on SECCA

Sustainable Energy Connectivity in Central Asia (SECCA):

EU-funded regional cooperation project between the European Union and its partner countries in Central Asia in the field of sustainable energy

Partner countries:

Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan







Project objective and outputs



Overall Objective:

to promote a more sustainable energy mix in the Central Asia region in line with EU best practices







EUROPEAN UNION'S EXPERIENCE IN ENERGY EFFICIENCY







EU policy framework for integrated Energy and Climate planning



Management in Construction, Division Facility Management

Energy Efficiency first principle

- Energy Efficiency is one of the key pillars not only to meet EU's climate objectives but also to reduce dependence on fossil fuels and increase security of supply and the use of renewable energy
- Energy Efficiency first (EE1st) principle is generally understood as a guiding principle for energy-related policymaking, planning, and investments
- The principle aims to treat energy efficiency as a source of energy in its own right in which the public and the private sector can invest ahead of other more complex or costly energy sources
- This includes giving priority to demand-side solutions whenever they are more costeffective than investments in energy infrastructure to meet policy objectives





Role of Building stock

- Buildings account for approximately **40% of final energy consumption**
- Investing in EE measures in buildings can yield substantial energy savings, while supporting economic growth, sustainable development and creating jobs
- Greater use of energy-efficient appliances and technologies, combined with renewable energy, are cost-effective ways of enhancing the security of energy supply







EUROPEAN UNION'S EXPERIENCE IN CERTIFICATION OF BUILDINGS







Policy elements and instruments/ tools for EE in Buildings







Evolution of Energy Performance Certification of Buildings concept



The revised Building Energy Performance Directive introduces various changes

2020		2025		2030	2050	
All new buildings in EU must be Near Zero Energy Buildings (NZEB)	Energy perform certificates (EP must be based harmonised en performance so by 2025	All build have a have a readine (SRI) by assess th integrat technolo	ings must smart ss indicator 2026 to heir ability to e smart ogies	All new buildings in the EU must be zero- emission buildings (ZEBs) from 2030	STOCK IN	
Existing PUB must be ren high energy level , with n performance at the EU lev	LIC buildings ovated to a performance ninimum energy ce standards set vel	Building life cycle carbon emissions calculation will be introduced	All new PUE buildings m zero-emissi buildings (7 2027)	BLIC nust be ion ZEBs from	DECAR BUILDING 20	
Funded by the European Union					SECCA	

Sustainable Energy Connectivity in Central Asia

Zero-emission buildings are a new aim for making buildings more climate friendly



HE-related section on the SECCA website

Latest News and Events

www.secca.eu





Latest news

Most up-to-date information on project activities





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