



ENERGY EFFICIENCY REFORM IN UKRAINE: WAYS OF IMPLEMENTATION

*9th Baltic Housing Conference,
14 September 2017, Rakvere, Estonia*



Structure of housing fund in Ukraine



240 thousand
apartment
buildings

80 thousand
houses higher
than 5 floors



160 thousand
houses up to
4 floors

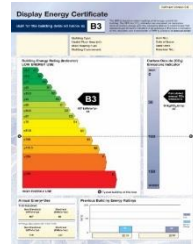


6.5 million
private houses



Consumer in focus in housing and utilities reform

Energy efficiency certification of the building



Law "On energy efficiency of buildings" №4941
(submitted to Verkhovna Rada of Ukraine)



Financial and technical support for building renovation

ФОНД
ЕНЕРГОЕФЕКТИВНОСТІ

Law "On the Fund for Energy Efficiency" № 5598
(adopted in June this year)



Consumer

Apartment building management



Law "On specifics of realization of the property rights in an apartment building"
(adopted in May 2015)



Provision of high-quality utility services

Concept of reforming TCE
(public discussion)



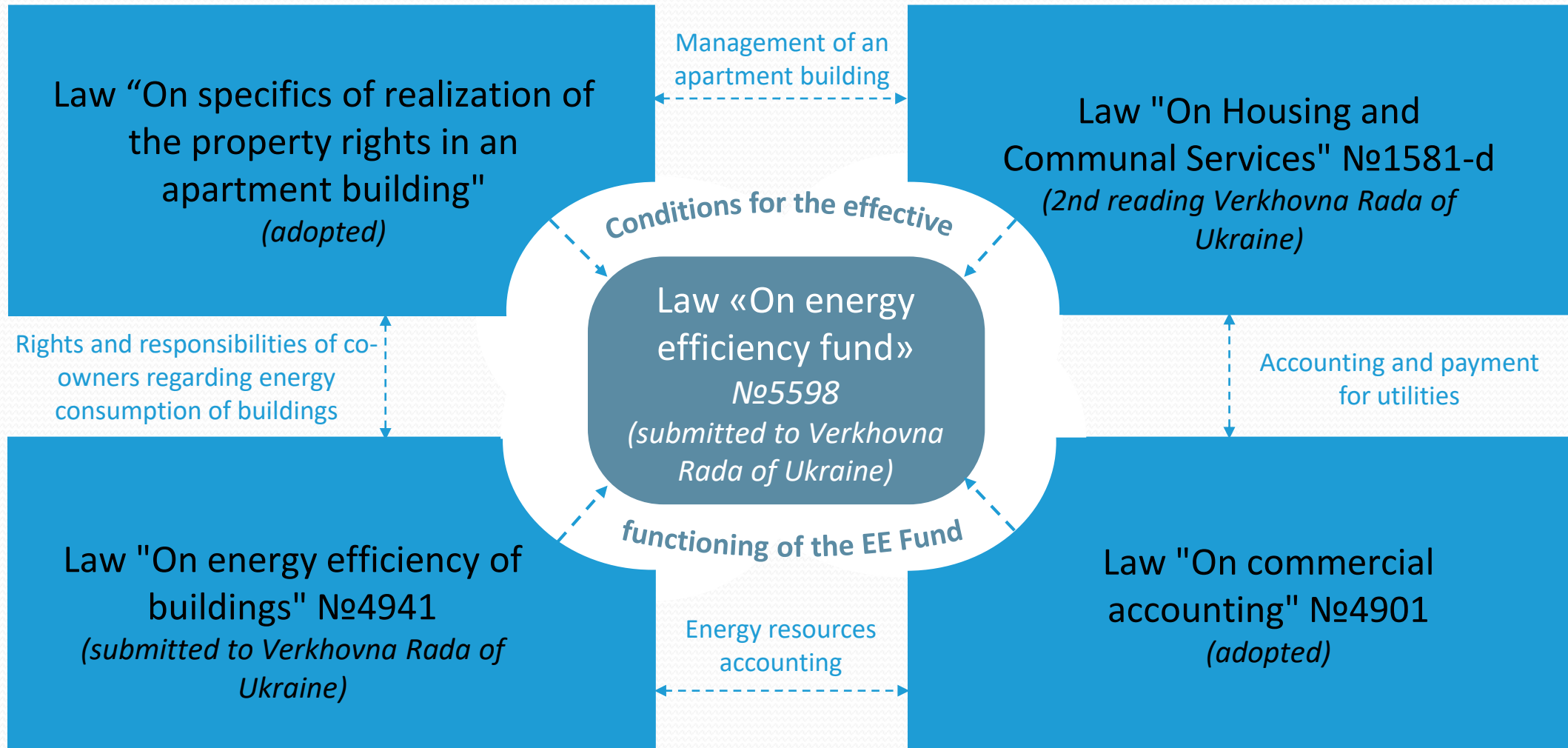
Contract terms and service accounting

Law "On commercial accounting" №4901
(adopted in June 2017 in 1st reading)

Law "On Housing and Communal Services" №1581-d
(2nd reading Verkhovna Rada of Ukraine)



Key laws for energy efficiency reform





«Fund – is easy»



The owner / ACAB chooses a product and creates an application with a package of documents (based on energy audit)



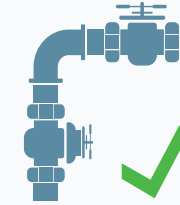
Check the application for compliance with the terms of the selected product



Submission of documents to the bank and approval of project financing



The owner / ACAB hires executors for the project



Monitoring the results of the project by the technical office of the Fund



Transfer of the grant to the account of the owner / ACAB or to repay the project loan



Program “70/30” - Kyiv

- **Competitive program of co-financing of energy efficiency** in residential buildings of ACAB and housing cooperatives on condition of 70% payment from the city budget, 30% payment by ACAB / HC.
- The Department of Housing and Communal Infrastructure of Kyiv is responsible for **the decisions made by the Competition Commission.**
- **Technical supervision** from the city is carried out by KP "Kyivstroykonstruktsiya". It is also a customer for the works executed for the expense of the city budget.



Program “70/30” - Kyiv

- ❑ **Owners (houses) must choose not less than two types of works, one of which:**
 - Owners pay from their own funds **30%** of the total cost of the project
 - The second type will be executed and paid for by the city. **70%** of the total cost



The most widespread measures:

- Replacement of windows
- Warming, replacement of boilers, renewal of heating radiators (for individuals)
- Area IHP (individual heat point)
- Establishment of measuring devices, modernization of lighting for ACAB / HC



240 thousand
apartment
buildings

80 thousand
houses higher
than 5 floors



160 thousand
houses up to
4 floors

6.5 million
private houses



Package “Light”

400 thousand UAH
(as per 100 apartments
building)



Package “Complex”

5 million UAH
(as per 100 apartments
building)



Package “Private”

120 thousand UAH
(house 80 m²)



up to **20%**
payments for heating
decrease
20 – 30% grant
of the total project cost
1,5 - 2 years
simple payback period of the
project, including grant



up to **60%**
payments for heating/gas
decrease
40 – 50% grant
of the total project cost
5 - 7 years
simple payback period of the
project, including grant



National Action Plan for Renewable Energy for the period until 2020

- developed in accordance with the requirements of Directive №2009/28/EC on the promotion of the use of energy from renewable sources
- approved by Order of the Cabinet of Ministers of Ukraine №902-p dated October 1, 2014



The main goal of the NREAP is to achieve the share of 11% of energy from RES in final energy consumption in the country by 2020



The massive involvement and participation of people

1. Campaigns are implemented to inform the public about the **importance and need for energy conservation**

- ✓ Resource Centers
- ✓ Unions of Owners
- ✓ Local authorities
- ✓ Specialized public organizations

2. Information campaigns on the **popularization of credit programs** for homeowners are activating.

- ✓ Central and local authorities
- ✓ Public organizations
- ✓ Stakeholder associations (eg. ESCO companies and local active NGOs through programs and projects)



The involving people through learning and professional training for housing manager

- 1. The preparation of managers, as the main provider of implementation of projects for thermo-modernization**
- 2. The manager must know about the thermal modernization of buildings, the stages and documentation of such projects**
- 3. The basic knowledge of international standards for energy management, like ISO 50001**

Structure educational thematic plan

**PREPARATION OF MANAGERS OF MANAGING HOUSEHOLD
AND MANAGEMENT COMPANIES OF HOUSING ENTERPRISES,
WHICH PROVIDE SERVICES FOR MANAGEMENT AND HOLDING OF HOUSING COMPLEX**

MODULE I. Organizational-legal and economic aspects of the management and maintenance of residential complex

MODULE II. Techno-technological aspects of safe operation and maintenance of a residential complex

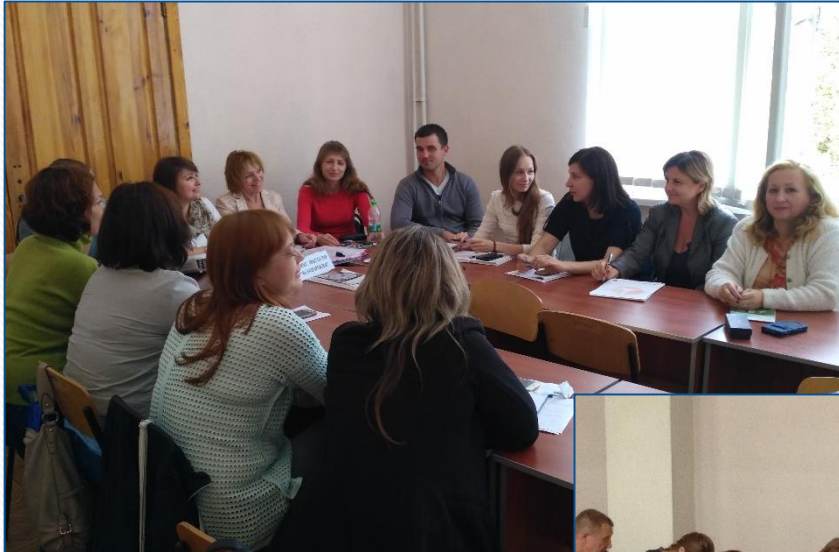
MODULE III. Modern management standards and software for managing and maintaining a residential complex

University-partners of EMAU

- ❑ Kyiv National University of Business and Architecture (KNUBA),
 - ❑ National Technical University of Ukraine
“Igor Sikorsky Kyiv Polytechnic Institute” (NTUU KPI)
 - ❑ National University "Lvivska Politekhnika"
 - ❑ O.M. Beketov Kharkiv National University of Urban Economy (HONG)
 - ❑ Donbas National Academy of Science and Technology (DonNABA)
 - ❑ National University of Water Governance and Nature Conservation (NUVGP)
 - ❑ Yuri Kondratyuk Poltava National Technical University
- ...and others

Training courses at the Zaporizhzhya National University

21 August –
02 September 2017



- ❑ **...develops and influences the conformity assessment policy; establishes a list of objects of conformity assessment and their characteristics; approves norms, requirements, technical regulations**
- ❑ **...carries out accreditation of conformity assessment bodies; develops and approves organizational and methodological documents;**
- ❑ **... establishes procedures and performs basic conformity assessment activities;**
- ❑ **...defines the requirements; is the customer of the service and/or "partner" in the implementation of the conformity assessment procedure;**

**The central executive authority
(Ministry of Economy)**

**National Accreditation Agency
of Ukraine (NAAU)**

***Conformity assessment bodies
(certification authority)***

***An entity interested in carrying out
conformity assessment (personnel)***

Olga Maksymenko

President EMAU

Auditor EOQ

(European Organization for Quality)

Thank you for attention!

тел.: +38 (067)747-22-85

+38 (050) 086-27-92

Tel/fax: +38 (044) 456-24-16

e-mail: emau.kiev.@ukr.net