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and Energy



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The main directions of reforming energy efficiency in Ukraine and institutional support for the implementation of energy efficiency and energy saving in housing nationally

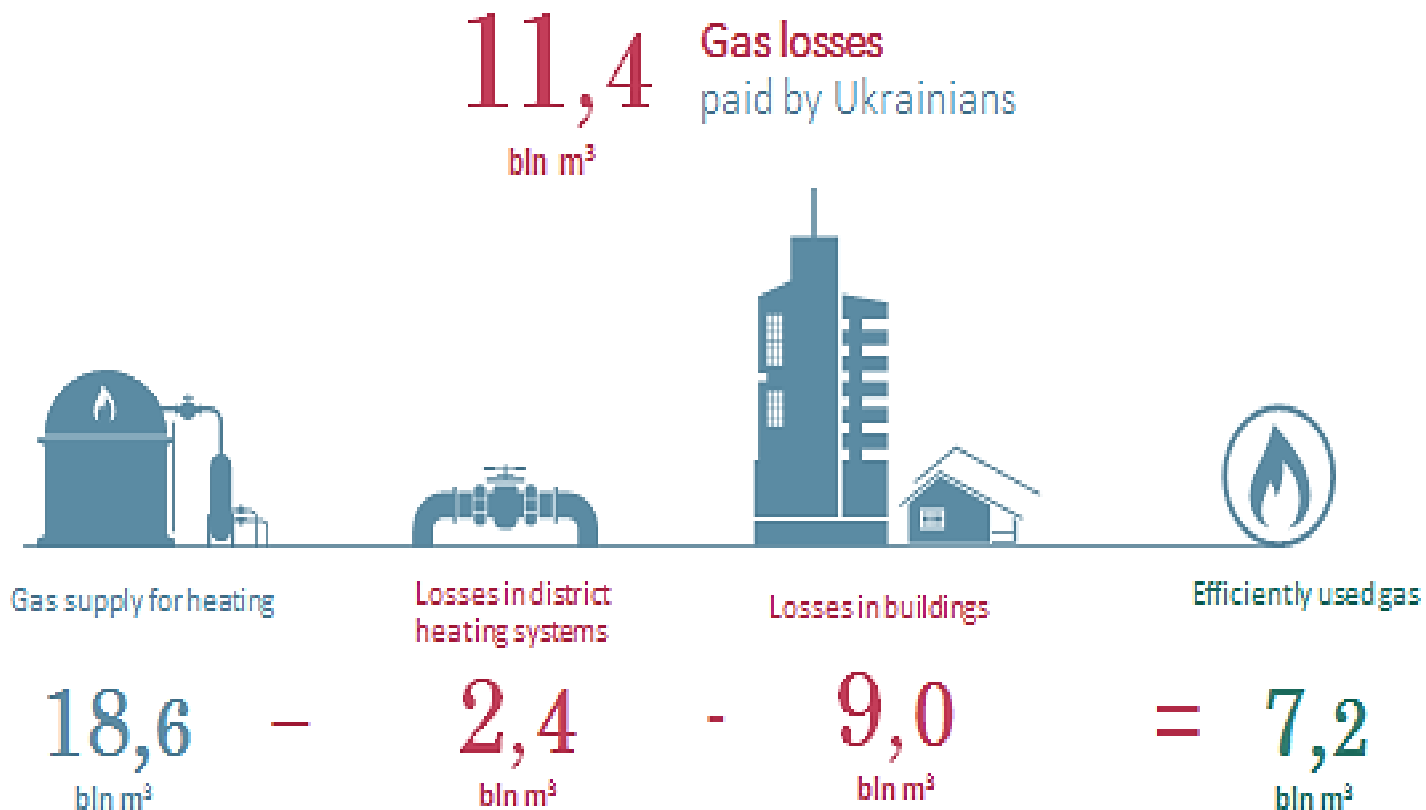


Roman Radchenko,
18/05/2017, Berlin



Facilitator

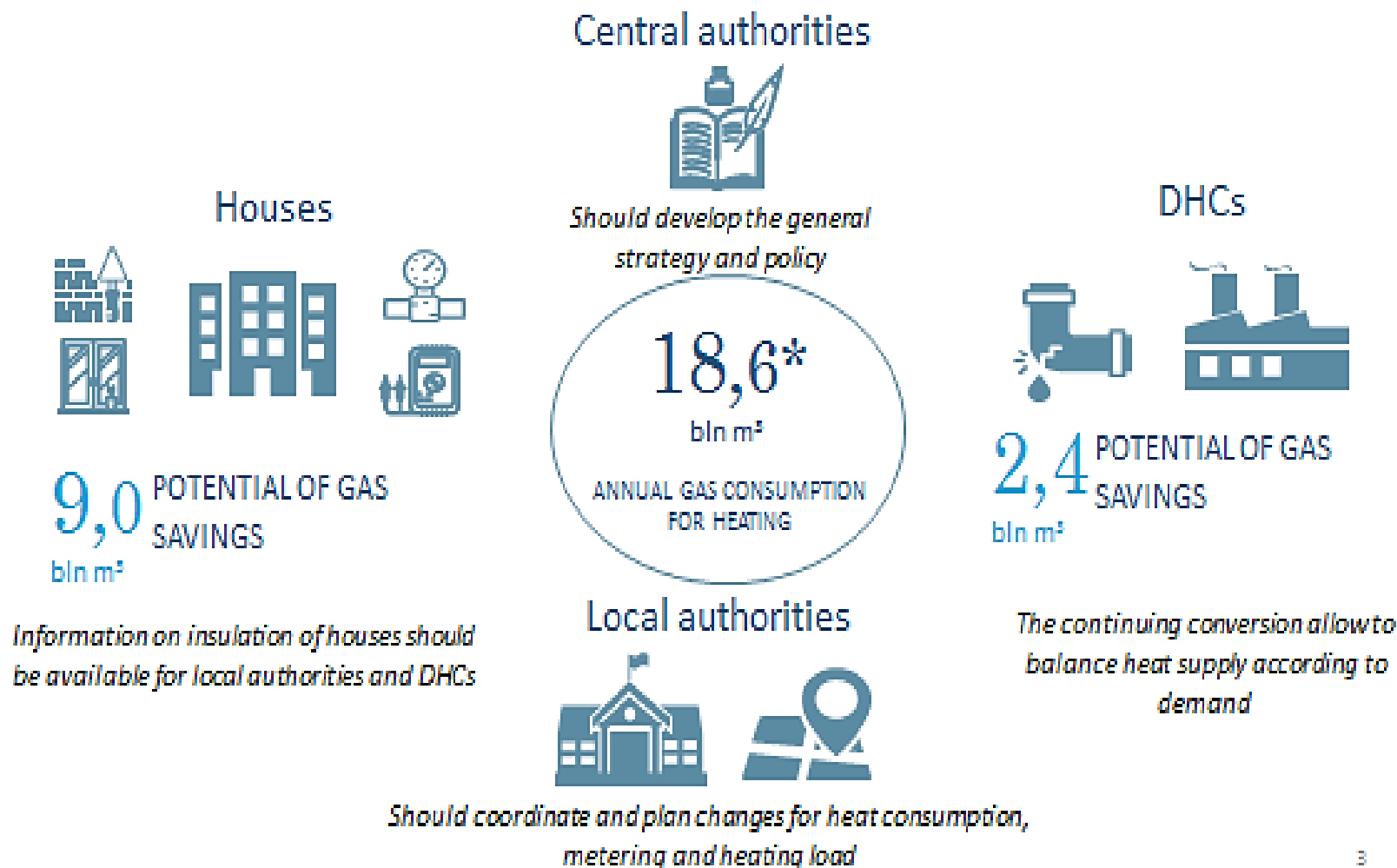
Aim of the reform – efficient use of energy resources



*Estimate of the annual gas consumption is made based on regular temperature in the heating season

2

Energy efficiency – the only way to energy independence



*Estimate of the annual gas consumption is made based on regular temperature in the heating season

3



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Main target areas of the reform



Utilities sector reform

High quality services for consumers



Housing reform

Tools for house management and EE measures financing



Subsidies reform

Incentives for energy saving



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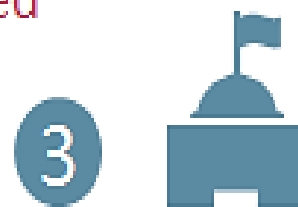
For the first time in 25 years the reform has made significant progress
and complex solution was proposed



1 Important laws were adopted in the 1st reading in Parliament



2 Successful launch of the pilot program "Warm loans"



3 Reform was supported by President and Prime Minister of Ukraine



4 Reform was supported by experts, publicity and HOAs



5 Debt restructuring in heating sector;
greater empowerment of local authorities



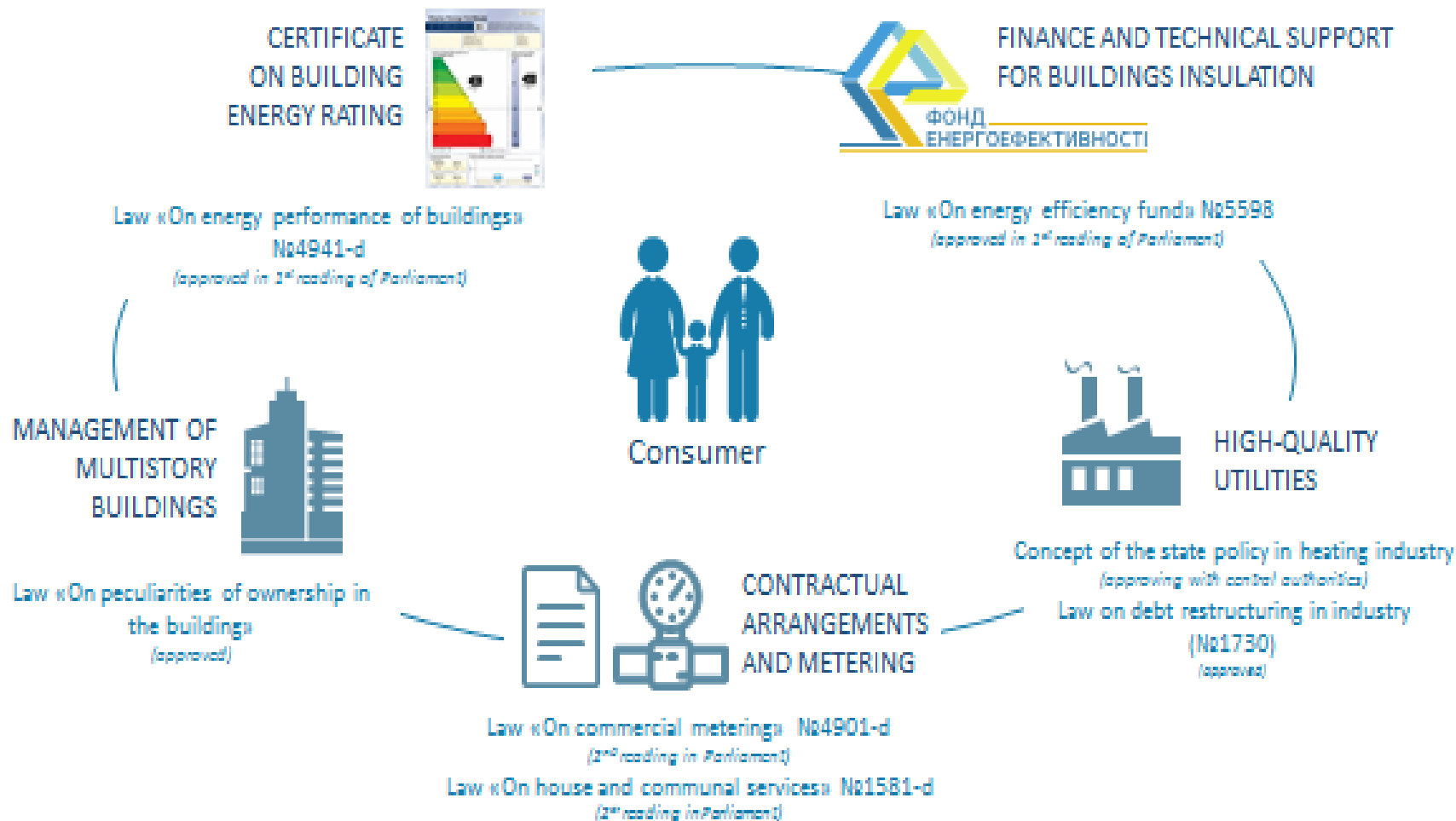
6 Reached an agreement on the significant amount of donor funding;
Modern financing mechanisms are developed (EE Fund)

Included to Government Action Plan for 2017 and Government Strategy until 2020



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All reforms are consumer-focused



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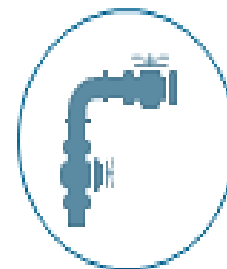


MINIREGION

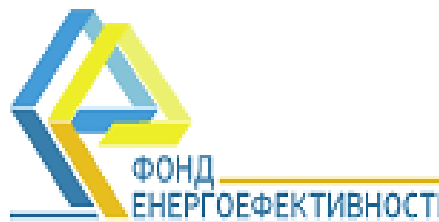
Core legislature is prepared and submitted to Parliament



Law «On peculiarities of ownership
in the building»
(approved)



Law «On house and communal services»
#1581-d
(2nd reading in Parliament)



Law «On Energy Efficiency Fund» #5598
(approved in the 1st reading in Parliament)



Law «On energy performance of buildings»
#4941-d
(approved in the 1st reading in Parliament)



Law «On commercial metering»
#4901-d
(2nd reading in Parliament)



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MIKROREGION

Creation of modern HUS market

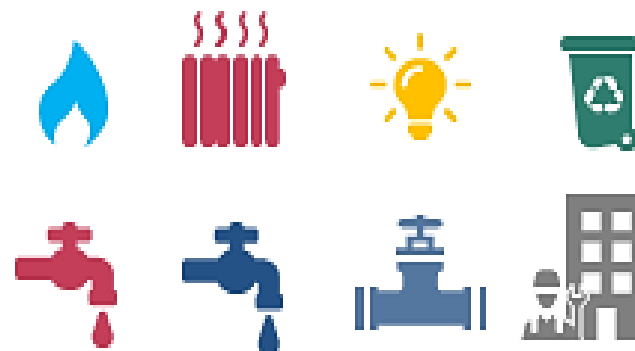
Law «On house and communal services»

2nd reading

Consumer



Service providers



SETS CLEAR RULES FOR RELATIONSHIP BETWEEN
CONSUMERS AND SERVICE PROVIDERS



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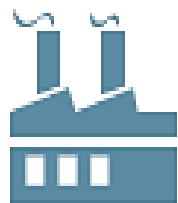
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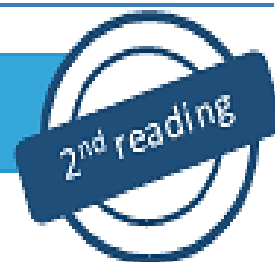
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Providing commercial metering of services



**BILL FOR HUS IS
CALCULATED BASED ON
METERING**

Law «On commercial metering of HUS»



Sets the obligation of 100% metering till 2018



Sets clear relationships between consumers and service providers on installation and maintenance



Necessary condition to implement market relations in HUS sector



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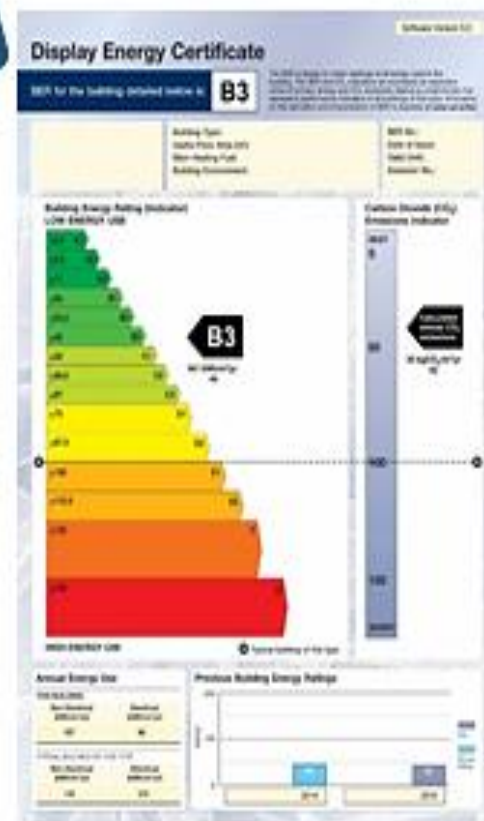


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Independent diagnostic of buildings and renovation plan

Law «On energy performance of buildings»

2nd reading



Sets energy fairness in the building



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Creation of Energy Efficiency Fund

Law «On Energy Efficiency Fund»

2nd reading



State



Business



EE FUND HAS TO
CONNECT ALL REQUIRED
MARKET SUBJECTS FOR
LARGE-SCALE ENERGY
MODERNIZATION

Supported by:



Households



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International resources are well consolidated



THE WORLD BANK



Ukraine



European Bank
for Reconstruction and Development



IFC

International
Finance Corporation
WORLD BANK GROUP



European
Investment
Bank



Financial support



Technical support for
development of law
concepts and legal acts



Support for reform
development strategy



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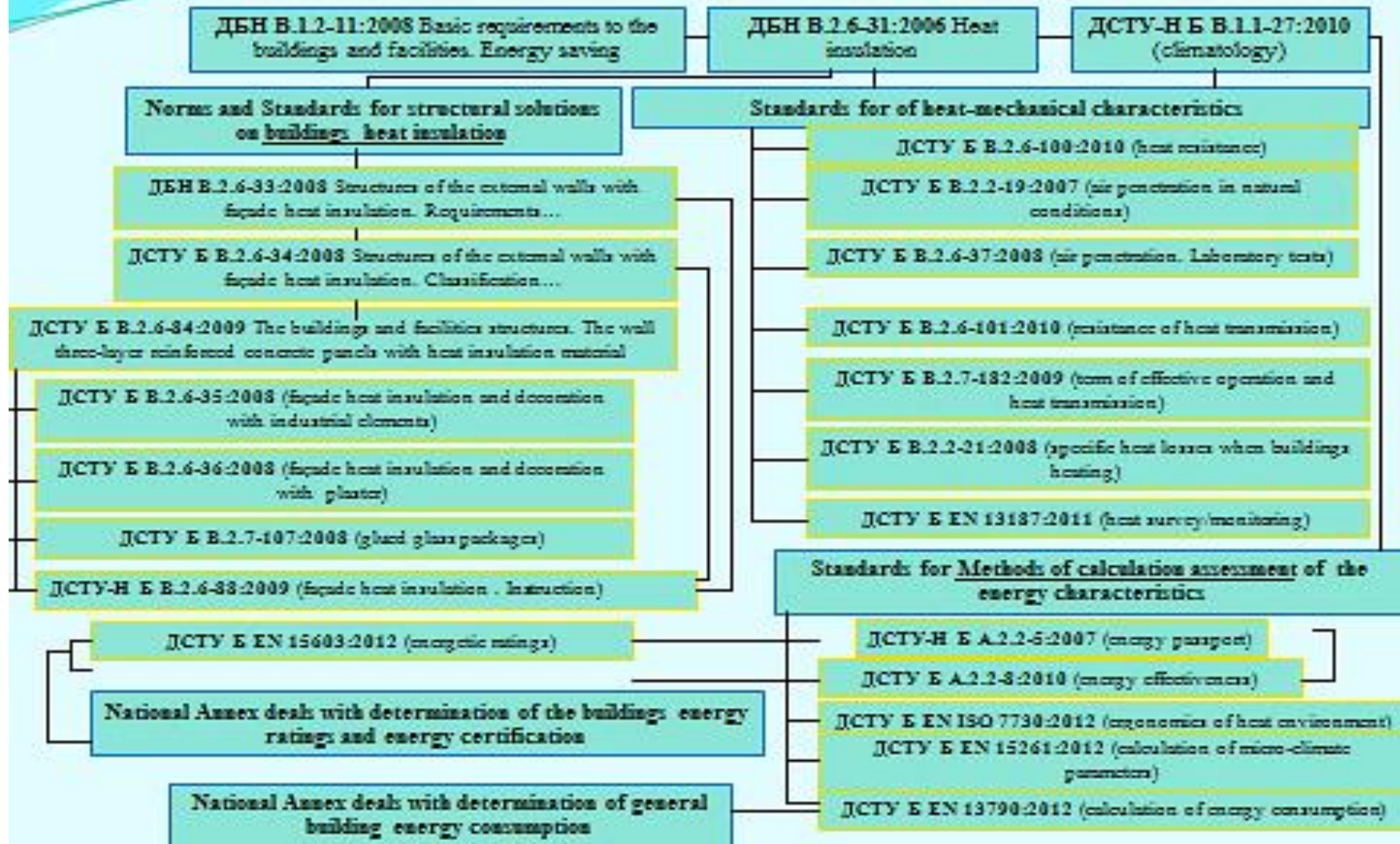


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System of the acting Norms and Standards in field of buildings energy effectiveness



System of acting Norms and Standards concerning to buildings energy effectiveness

**Standards for methods of calculation
assessment of the energy indexes**

DSTU-НБ А.2.2-5:2007 (energy Certificate)

DSTU Б В EN 7730:2012 (ergonomics of heat mediums)

DSTU Б В EN 15261:2012 (calculation of micro-climate parameters)

DSTU Б В EN 13790:2012 (calculation of energy consumption)

ДСТУ Б В EN 15603:2013 (energy rating)

DSTU Б В EN 15217:2012 (energy certification)

DSTU Б В EN 13790:2012 (calculation of energy consumption)



Strategic task is ensuring of comfort and functionality for the buildings and facilities in Ukraine on base of ensuring of their energy effectiveness

Sufficient decreasing of energy consumption in buildings (from 150-300 kWt·h/m²year up to 15-45 kWt·h/m²year. It permits to decrease:

the CO₂ release by 40% and to improve the ecological situation;

water consumption by 30% and to improve the habitation of population when increase of construction cost is not more then by 4-5%

by means of development and implementation of:

- the technical solutions according to standards of passive buildings and “green” construction,

modern management means,
effective control and optimization of all building systems works.





State support of energy efficiency

IN REGION

October 2014 – start of state program «Warm loans»



648
HOAs

and



164 ths
households

have already used
the program



UAH 2,7 bln

total amount of
loans since 2014



participate in the
program

4 banks



UAH 432 mln

budgeted in 2017
for grants



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Examples of buildings insulation using state support

Before



After



HOA «Zatyshok-2»
Ivano-Frankivsk city

Before



After



HOA «Halytskoho-4»
Rivnenska obl

IHP installation



HOA «Mriya»



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State Enterprise «Research Institute of building constructions» (NIISK)

State Enterprise «Research Institute of building constructions» (NIISK) is one of oldest research centers of Ukrainian building sector. It was established in November 1943 for contributing to the implementation of the program of reconstruction of destroyed building objects in most short term and find the most efficient designs, saving building materials, replacement more scarce materials for less scarce one.



Projects of SE NISK deal with thermal modernization – child care center, Kyiv, r/m Osokorki, 10-th district, site 36

Before:






After:





The volume of necessary investments to energy efficiency in buildings



Public buildings	Residential buildings (more than 5 floors)	
	Multi flats	Individual
Number of buildings 		
≈ 100 thousand	≈ 80 thousand	≈ 6,5 million
Investment needs 		
≈ from 4.2 to 8.5 bln. dollars. USA*	≈ from 48.5 to 86.9 bln. dollars. USA*	
Potential annual Gas savings 		
700 mln m ³	8 bln m ³	



*Depending on the type of house, technical condition
and their respective needs with thermomodernization



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Thank you for your attention!

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