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ANALYSIS OF LEGISLATION ON ENERGY EFFICIENCY OF BUILDINGS IN UKRAINE

Abstract. *The article presents the key positions of legislation in the field of energy efficiency of buildings in Ukraine. The main stages of development of the domestic regulatory framework in the field of energy efficiency of buildings are presented. According to the legislative documents, definitions of the Terms "energy efficiency" and "energy efficiency of buildings" are presented.*

Keywords: *energy efficiency, legislation, implementation, Ukrainian standards (norms).*

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АНАЛІЗ ЗАКОНОДАВСТВА ЕНЕРГЕТИЧНОЇ ЕФЕКТИВНОСТІ БУДІВЕЛЬ В УКРАЇНІ

Анотація. *В статті представлено ключові позиції законодавства в сфері енергетичної ефективності будівель в Україні. Наведені основні етапи розвитку вітчизняної нормативної бази у сфері енергоефективності будівель. Відповідно законодавчих документів представлені визначення термінів "енергоефективність" та "енергоефективність будівель".*

Ключові слова: *енергоефективність, законодавство, імплементація, українські стандарти (норми).*

In a market economy, the most effective mechanisms of state influence on the formation of the energy market include the creation and improvement of legislative and regulatory bases that determine the rules for interaction between market participants. At the same time, the state sets mandatory requirements and criteria that ensure its safety. Economical use of energy is precisely a condition for the security of Ukraine, whose economy depends on foreign energy suppliers. Areas of development of legislative and regulatory bases in the field of energy efficiency in Ukraine are now in different dimensions – the regulatory framework is created in accordance with a clear scientific methodology, is constantly being improved, new documents are introduced annually, while at the level of legislation for a long time there was only the law of Ukraine " On energy saving " from 01.07.94, No 74/94-VR.

In recent years, attempts to improve the legislative framework have been made several times. In particular, in 2014, the draft law of Ukraine "On energy efficiency of buildings" initiated was adopted by the Verkhovna Rada of Ukraine and signed by the president of Ukraine only on 20.07.2017 after its completion. This law regulates relations arising in the field of ensuring the energy efficiency of buildings, in order to increase the level of energy efficiency of buildings, taking into account local climatic conditions and ensuring appropriate conditions for living and/or life of people in such buildings and is a direct implementation of Directive 2010/31/EC in the legislative field of Ukraine. The law defines the introduction of certification of energy efficiency of buildings from July 01, 2019 and the definition of building classes.

Certificates contain data on the building's energy consumption and recommendations for improving the building's energy efficiency. Certification is carried out on a contractual basis in order to determine the actual energy efficiency indicators of buildings and assess their compliance with the minimum energy efficiency requirements established by the Ministry of regional development, construction and housing and communal services. the public. They are checked every five years. The creation of the building's energy passport for a construction object is entrusted to the construction customer before such an object is put into operation. The document is valid for ten years.

It should be noted that the law of Ukraine "On energy efficiency of buildings" also introduces the procedure of mandatory energy audit of buildings. such audits are conducted by certain certified companies and certified energy auditors. So, simultaneously with the law of Ukraine "On energy efficiency of buildings", the law of Ukraine "On the Energy Efficiency Fund" and the law of Ukraine "on commercial accounting of heat energy and water supply" were adopted, which create conditions for state support and stimulation of energy efficiency measures. So, there are all opportunities to assert that the legislative and regulatory framework forms a certain system for solving global issues of improving the energy efficiency of buildings in Ukraine.

The development of the domestic regulatory framework in the field of energy efficiency of buildings was carried out at the following stages (Fig. 1). We will focus only on the current stages, in particular, in 2012-2014, the process of harmonization of the national regulatory field with European standards in the field of energy efficiency and the implementation of European standards in the national system of norms and standards was carried out.

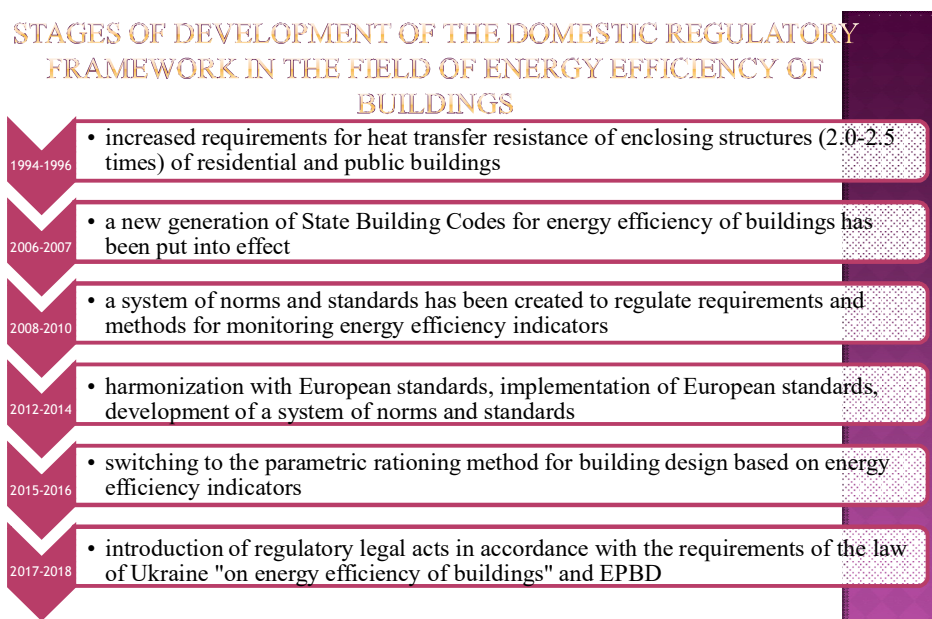


Figure 1 – Development of the domestic regulatory framework in the field of energy efficiency of buildings

In 2015-2018, a methodological transition to the parametric rationing method for building design in terms of energy efficiency indicators was started and the process of harmonization with EU standards was continued. According to the legislative documents, definitions of the Terms "energy efficiency" and "energy efficiency of buildings" are presented (Fig. 2).

THE TERM " ENERGY EFFICIENCY» according to the DBN

B.2.6-31:2016:

The property of the building, its structural elements and engineering equipment to provide during the expected life cycle of the building household needs of a person and optimal microclimatic conditions for his stay and/or living in the premises of such a building at the standard permissible (optimal) level of energy resources expenditure for heating, lighting, ventilation, air conditioning, hot water supply, taking into account local climatic conditions.

THE TERM " ENERGY EFFICIENCY OF BUILDINGS» according to the law of Ukraine "on energy efficiency of buildings»:

The energy efficiency of buildings is determined in accordance with the methodology developed taking into account the requirements of acts of legislation of the European Union, the Energy Community, harmonized European standards in the field of energy efficiency of buildings and approved by the central executive authority that ensures the formation of state policy in the field of construction

Figure 2 – Definition of the terms "energy efficiency" and "energy efficiency of buildings"

In the construction sector of Ukraine, legal relations are regulated by laws and bylaws (resolutions, orders, instructions, etc.), the energy strategy of Ukraine for the period up to 2030; new standards have also been developed and adopted, which are harmonized with the EU approaches to stimulating energy efficiency in buildings, organizing energy audits and energy management. The legislative framework of Ukraine on energy efficiency of buildings is presented (Fig. 3).



Figure 3 – Legislative framework of Ukraine on energy efficiency of buildings

The system of standards and requirements is aimed at stimulating the introduction of energy-saving technologies in construction practice. Ukraine has developed a number of standards regulating the requirements for evaluating technical solutions of enclosing structures, requirements for thermal characteristics, energy efficiency indicators, energy certification and certification of buildings. Numerous state standards have been developed and adopted in various fields (energy labeling; energy consumption assessment, thermal modernization and energy audit in construction, construction of an energy management system in municipalities, indoor microclimate requirements, etc.).

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