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REVIEW
OF THE MONOGRAPH OF BILAN Y., CHYGRYN O., KOLOSOK S.
"ENVIRONMENTAL AND ECONOMIC IMPACTS OF ENERGY
TRANSFORMATION: CONCEPTS INNOVATION AND BUSINESS MODELS"

Today, the implementation of the sustainable development model requires urgent changes in the systems of energy consumption, energy supplies, social values, changes in consumer behavior, and approaches to the activities of producers. The government policy and implemented economic mechanisms must be focused to create the preconditions for the smart transformation energy sector of the national economy. At the same time, the European integration vector of development of the national economy provides for the synchronization of domestic energy policy with the strategic guidelines of the European Union on the transition to a circular and carbon-neutral economy. During the years of independence, the inconsistency and diversity of the government's actions to reform the energy sector have not led to the emergence of divergent trends in its development in comparison to EU countries.

Diversification of sources and ways of energy supply is relevant for the national economy. The authors emphasize that energy independence must be ensured through the intensive increase of the resource base and production of primary energy resources, increasing renewable energy, modernization of domestic capacities for their processing, transportation, creation of stocks and reserves, diversification of sources and supply routes, technical and technological re-equipment of key enterprises. In this paper, the authors have proposed the direction of the energy sector modernization in the national economy.

The monograph provides the main requirements and motivating factors in promoting the processes of attracting investment in the energy sector (rule of law, adaptation to European energy legislation, deoffshorization of the economy, introduction of stimulating regulatory legislation, economically justified tariffs, conducting communication and marketing policies to encourage entry into the market of strategic and financial investors, deoffshorization of the economy). A component that should be considered in the development and implementation of strategies in the energy sector of individual countries was identified. It is the transformation of energy markets under the influence of internationalization and globalization.

During empirical calculations, the authors draw interesting from a scientific and practical point of view conclusions about the relationship between greenhouse gas emissions and energy efficiency, the share of renewable energy in energy consumption and green investment, and greenhouse gas emissions. There are solid two-way relationships between a country's energy efficiency and the percentage of renewable energy in energy consumption, between a country's energy efficiency and green investment, and between greenhouse gas emissions and green technology investment. It makes it possible to draw interesting

conclusions from the study that the attraction of green investment and the development of renewable energy creates the preconditions for reducing greenhouse gas emissions into the environment and increasing the energy efficiency of the national economy.

The authors of the monograph emphasize that it is essential to study the theoretical and methodological principles of the green competitiveness of energy sector enterprises to improve the categorical apparatus further and form a system of its organizational and economic principles provision. In that context analysis of scientific publications on green competitiveness concluded that in the long run, environmental competitiveness would be a powerful driver for countries, regions, and energy companies to ensure efficient economic activity, international cooperation, solve resource and environmental problems, sustainable development, and promotion of alternative energy.

In our opinion, the monograph attracts attention with its complexity, as well as specific features. First, it is a relatively high theoretical and methodological level, a significant generalization of already known impact studies on implementing the principles of the transformation energy sector. Secondly, the authors considered the development of sustainable business models for the transformation of the energy sector.

The practical significance of the monograph is that the obtained scientific results and conclusions can be used to form strategies for the socio-economic development of different countries and regions, improve the national energy systems and develop the concept of optimizing sources of financing for smart energy networks.

From the content of the monograph, it should be noted that the authors carefully approached the solution of the tasks, competently structured the material of the monograph, and quite well-combining research methods and methods of the problem statement.

Thus, this monograph is an independent scientific study performed on a topical issue in modern realities and has scientific and practical value. The authors draw sound conclusions from the analysis. We consider the structure of the material logical and consistent. The design of the monograph meets the requirements for scientific papers. Thus, the monograph "Environmental and Economic Impacts of Energy Transformation: Concepts Innovation and Business Models" can be published in this version.