

**Ministry of Education and Science of Ukraine
Sumy State University
Kaunas University of Technology, School of Economics and
Business
University of Bradford, School of Management
Riga Technical University
Czech University of Life Sciences Prague
University of New Brunswick
International Centre for Enterprise and Sustainable
Development (ICED), Accra, Ghana**



"ECONOMICS FOR ECOLOGY"

*Materials
International scientific-practical conference
(Ukraine, Sumy, May - June 31- 01, 2022)*

*Sumy
Sumy State University
2022*

УДК: 330.36.012

Авторський знак: S70

Editor-in-Chief Prof., Dr. Karitseva Oleksandra, Head of the Department of Economics, Entrepreneurship and Business Administration, Sumy State University

Approved by the Academic Council of Sumy State University (order № 0547-I, 12 September, 2022)

Economics for Ecology : Proceedings of the International Scientific and Practical Conference, Sumy, 31 May – 01 June, 2022 / edited by Karitseva Oleksandra and Kubatko Oleksandr . – Sumy : Sumy State University, 2022. – 93 p. (*electronic edition*)

For scientists, scientists, students, graduate students, representatives of business and public organizations and higher education institutions and a wide range of readers.

ECOLOGIZATION OF ECONOMY AND ECOLOGICAL PRODUCTION IN UKRAINE*

Maryna Nikulina, student of ARI BiEM

Voronenko Viacheslav, PhD, As. Prof.,

Sumy State University, Ukraine

Zabolotna Elizaveta, high school student,

Bilopillya Lyceum №2 named after S.M. Gordienko, Ukraine

Man, being the main business entity, has a destabilizing effect on the environment. With the development of the technological process, people began to use natural resources on a larger scale, which leads to their depletion and pollution. These effects of nature management have led to global climate change on our planet, and therefore the task of combating pollution and climate change.

The causes of environmental problems in Ukraine are:

- long-term, uncontrolled and not always justified use of natural resources (mining, industrial deforestation, etc.);
- industrialization of the economy (the emergence of a large number of industries that emit harmful substances into the environment).

The managerial problem of greening production and technology in Ukraine is primarily that the domestic economy is focused on traditional production and the traditional market, which in their technological requirements do not take into account the environmental factor. The way out of this situation is the greening of the economy and society.

Greening the economy is one of the necessary conditions and the main component of environmental development[4,5,11,12,15,16,17,19,21,22]. In essence, it means the process of greening the entire socio-economic structure and development of human society. Therefore, it is necessary to introduce new principles and effective measures aimed at integrating the environmental component into all sectors of the economy:

- the relationship of management, scientific, technical, and economic activities of the enterprise with the rational use of natural resources and the effectiveness of measures to protect the environment;
- setting limits on the use of natural resources, emissions of pollutants and on the generation and disposal of waste;
- providing tax, credit or other benefits to enterprises and citizens when implementing low-waste energy-saving and resource-saving technologies and non-traditional types of energy or other effective measures to protect the environment.

The basis for the greening of the economy is the potential for growth in production while maintaining and transitioning to the accelerated improvement of environmental quality. The need for greening is determined by the laws of Ukraine "On Environmental Protection" and "On Basic Principles (Strategy) of State Environmental Policy of Ukraine until 2030", other environmental laws and regulations of the state.

The use of modern environmentally friendly production technologies is now the main condition for increasing productivity and creating competitive industrial products at industrial enterprises.

One of the main factors of environmentally friendly enterprise is waste-free production. The need to move to new waste-free technologies was caused by the understanding that the existing production technologies are overwhelmingly open systems that irrationally use natural resources and generate significant amounts of waste, which are sources of environmental pollution. (Andrichenko, 2018).

Waste-free technology includes a set of measures that ensure minimal loss of natural resources, energy, and fuel from production, as well as maximum efficiency and cost-effectiveness of their use.

The main directions in the development of waste-free technology are:

- creation of the most closed systems, organized by analogy with natural ecosystems;
- integrated use of raw materials;
- disposal of emissions.

In Ukraine, industry is very important for economic development, but at the same time industrial complexes are key anthropogenic factors.

Thus, it can be noted that the main task of greening the economy is the process of preparing the national economy for the transition to sustainable development [6,7,8,9,10,13,14,18,20,23,24,25]. To achieve it in modern conditions, it is necessary to abandon the extensive use of natural resources and find more progressive and innovative management models.

References

1. Andreichenko, A. (2018). Practice of application of non-waste technologies in the agro-industrial complex on the way to implementation of the global program of sustainable development. *Agrosvit*, (6), 40–45. URL: <http://www.agrosvit.info/?op=1&z=2599&i=6>
2. Pavlo Hrytsenko, Viacheslav Voronenko, Yevhen Kovalenko, Tetiana Kurman and Vitalii Omelianenko (2021). Assessment of the development of innovation activities in the regions: Case of Ukraine. *Problems and Perspectives in Management*, 19(4), 77-88. DOI: 10.21511/ppm.19(4).2021.07.
3. Kovalov, B., Burlakova, I., and Voronenko, V. (2017). Evaluation of Tourism Competitiveness of Ukraine's Regions. *Journal of Environmental Management and Tourism*, 8(2), 460-466. DOI: 10.14505/jemt.v8.2(18).19.
4. Voronenko, V., Kovalov, B., Horobchenko, D., and Hrycenko P. (2017). The Effects of the Management of Natural Energy Resources in the European Union. *Journal of Environmental Management and Tourism*, 8(7), 1410-1419. DOI: 10.14505/jemt.v8.7(23).10.
5. Horobchenko, D., Voronenko, V. (2018). Approaches to the Formation of a Theoretical Model for the Analysis of Environmental and Economic Development. *Journal of Environmental Management and Tourism*, 9(5), 1108-1119. DOI: 10.14505/jemt.v9.5(29).24.
6. Babenko, V., Matsenko, O., Voronenko, V., Nikolaiev, S., Kazak, D. (2020). Economic prospects for cooperation the European Union and Ukraine in the use of blockchain technologies. *Вісник Харківського національного університету імені В. Н. Каразіна. Серія «Міжнародні відносини. Економіка. Країнознавство. Туризм»*, 12, 8-17. DOI: 10.26565/2310-9513-2020-12-01.
7. Hrytsenko, P. V., Kovalenko, Y. V., Voronenko, V. I., Smakouz, A. M., Stepanenko, Y. S. (2021). Analysis of the Definition of “Change” as an Economic

Category. *Механізм регулювання економіки*, 1, 92-98. DOI: 10.21272/mer.2021.91.07.

8. Derev'yanko Yu.M., Lukash O.A., Litsman M.A., Svitlychna A.O. The State and Trends of Enterprises Efficiency on the Basis of Modern Indicators. *Механізм регулювання економіки*. 2020. 1. С. 106-115. DOI: <https://doi.org/10.21272/mer.2020.87.09>.

<https://essuir.sumdu.edu.ua/handle/123456789/80687>

9. Hrytsenko Pavlo, Voronenko Viacheslav, Kovalenko Yevhen, Kurman Tetiana and Omelianenko Vitalii. Assessment of the development of innovation activities in the regions: Case of Ukraine. *Problems and Perspectives in Management*. 2021. 19(4). С. 77-88. DOI: 10.21511/ppm.19(4).2021.07.

<https://essuir.sumdu.edu.ua/handle/123456789/85729> (Scopus)

10. Hrytsenko, P. V., Kovalenko, Y. V., Voronenko, V. I., Smakouz, A. M., Stepanenko, Y. S. Analysis of the Definition of "Change" as an Economic Category. *Механізм регулювання економіки*. 2021. 1. С. 92-98. DOI: 10.21272/mer.2021.91.07. <https://essuir.sumdu.edu.ua/handle/123456789/84025>

11. Kubatko O. V., Yaryomenko D. O., Kharchenko M.O., Almashaqbeh Ismail Y. A. Economic and environmental aspects of Smart Grid technologies implementation in Ukraine. *Механізм регулювання економіки*. 2020. 1. С. 28-37. DOI: doi.org/10.21272/mer.2020.87.01.

<https://essuir.sumdu.edu.ua/handle/123456789/80469>

12. Kubatko O.V., Ignatchenko V.M., Shaparenko S.V., Starodub I.A., Yaryomenko D.O. Economic optimization of resource use based on smart grid. *Механізм регулювання економіки*. 2020. 2. С. 37-46. DOI: doi.org/10.21272/mer.2020.87.03.

<https://essuir.sumdu.edu.ua/handle/123456789/82241>

13. Lukash O.A., Derev'yanko Yu.M., Kozlov D.V., Mukorez A.I. Regional Economic Development in The Context of the COVID-19 Pandemic and the Economic Crisis. *Механізм регулювання економіки*. 2021. 1. С. 99-107. DOI: <https://doi.org/10.21272/mer.2021.91.08>.

<https://essuir.sumdu.edu.ua/handle/123456789/84026>

14. Matsenko, O., Kovalev, Y., Tkachenko, O. & Chorna, Y. Complex Solution of Ecological and Economic Problems of Traffic Jams. *Mechanism of Economic Regulation*. 2020. 4. С. 6-15. DOI: <https://doi.org/10.21272/mer.2019.86.02>.

<https://essuir.sumdu.edu.ua/handle/123456789/77238>

15. Matsenko, O., Tereshchenko, V., Piven, V., Panchenko, A. & Perekhod, E. Socio-environmental and Economic Problems of Solar Panels Recycling. *Mechanism of Economic Regulation*. 2020. 1. С. 48-55. DOI: <https://doi.org/10.21272/mer.2020.87.03>.

<https://essuir.sumdu.edu.ua/handle/123456789/80473>

16. Melnyk L. Hr, Shaulska L. V., Matsenko O. I., Piven V. S., Konoplov V. V. Modern Trends in the Production of Renewable Energy: the Cost Benefit Approach. *Механізм регулювання економіки*. 2021. 1. С. 6-17. DOI: 10.21272/mer.2021.91.01. <https://essuir.sumdu.edu.ua/handle/123456789/83761>
17. Melnyk L., Derykolenko O., Matsenko O., Mazin Y., Piven V. Modern Trends in the Development of Renewable Energy: the Experience of the EU and Leading Countries of the World. *Mechanism of Economic Regulation*. 2020. 3. С. 117-133. DOI: <https://doi.org/10.21272/mer.2020.89.09>.
<https://essuir.sumdu.edu.ua/handle/123456789/81810>
18. Melnyk L., Matsenko O., Piven V., Kurylenko M., Derykolenko O. Formation of Human Capital in the Digital Economy. *Mechanism of economic regulation*. 2020. 4. С. 19-35. DOI: <https://doi.org/10.21272/mer.2020.90.02>.
<https://essuir.sumdu.edu.ua/handle/123456789/83750>
19. Nesterenko V., Dolhosheieva O., Kirilieva A., Voronenko V., Hrytsenko P. «Green» vector of the economic development of the country. *Механізм регулювання економіки*. 2021. 3. С. 82-90. DOI: 10.21272/mer.2021.93.07.
<https://essuir.sumdu.edu.ua/handle/123456789/87533>
20. Pavlenko D. S., Kubatko O. V., Ziabina Y. A. Economic, Social and Technological Factors of Startup's Success. *Механізм регулювання економіки*. 2020. 1. С. 64-74. DOI: <https://doi.org/10.21272/mer.2020.87.05>.
<https://essuir.sumdu.edu.ua/handle/123456789/80477>
21. Sotnyk I. M., Matsenko O. M., Popov V. S., Martymianov A. S. Ensuring the economic competitiveness of small green energy projects. *Mechanism of Economic Regulation*. 2021. 1. С. 28-40. DOI: <https://doi.org/10.21272/mer.2021.91.03>.
<https://essuir.sumdu.edu.ua/handle/123456789/84021>
22. Sotnyk I., Sotnyk M., Olondar A., Pidopryhora N., Maslii M. Managing the energy-efficient development of the university: re-strains and ways to overcome them. *Mechanism of Economic Regulation*. 2020. 3. С. 68-86. DOI: <https://doi.org/10.21272/mer.2020.89.06>.
<https://essuir.sumdu.edu.ua/handle/123456789/81758>
23. Tambovceva T., Melnyk L., Dehtyarova I. , Nikolaev S. Circular Economy: Tenden-cies and Development Per-spectives. *Mechanism of Economic Regulation*. 2021. 2. С. 33-42. DOI: <https://doi.org/10.21272/mer.2021.92.04>.
<https://essuir.sumdu.edu.ua/handle/123456789/85156>
24. Yaremenko A., Chortok Yu., Goncharenko O., Chama Theodore KETUAMA Peculiarities of formation of the region's logistics infrastructure on the basis of Eco-innovations within the framework of stakeholders' partnership in the Enterprise-Region. *Механізм регулювання економіки*. 2021. 4. С. 9-13.
<https://essuir.sumdu.edu.ua/handle/123456789/87514>

25. Yevdokymov Andriy V., Dron Viktoria V., Yevdokymova Alona V., Karintseva Oleksandra I., Kharchenko Mykola O. Designing the information educational environment of the studying course for the educational process management using cloud services. *Механізм регулювання економіки*. 2020. 3. С. 87-96. DOI: doi.org/10.21272/mer.2020.89.06. <https://essuir.sumdu.edu.ua/handle/123456789/81759>

**The paper is prepared within the scientific research project “Sustainable development and resource security: from disruptive technologies to digital transformation of Ukrainian economy” (№ 0121U100470).*