

DECARBONIZATION. REDUCTION OF CO² EMISSIONS

Vinnitsia National Technical University

Анотація

Робота присвячена аналізу особливостей функціонування енергетичних підприємств у контексті реалізації Україною міжнародних ініціатив з декарбонізації. В ході дослідження визначено ключові напрями забезпечення сталого розвитку вітчизняних компаній за умов виконання положень Паризької кліматичної угоди та Європейської Зеленої Угоди.

Ключові слова: екологія, довкілля, метод, ідея, енергетика, «зелена» енергетика, «низьковуглецева» енергетика, «озеленення» енергетики.

Abstract

The work is devoted to methods of saving electricity in homes. Methods that help solve the problem of ecology in Ukraine were considered. Improper or excessive use of electricity causes problems in the economy, environment, technical industry and more. Ukraine is currently in a crisis situation that requires changes and the use of more efficient means of saving electricity.

Key words: ecology, environment, method, idea, energy, “green” energy, “low carbon” energy, “greening” energy.

Introduction

Today, there is a critical situation regarding the technical condition of the existing large combustion plants in the energy sector of Ukraine and the electricity transmission system, which, together with the limited financial resources of the operators who serve them, as well as a significant amount of equipment modernization work and a long time for their completion, prevent timely implementation, commitments made by the government of Ukraine to reduce emissions of greenhouse gases and pollutants into the atmosphere.

Research Results

The analysis of the latest researches and publications proves that the issue of forming a new energy policy of the state, aimed at the “greening” of the energy industry, has not left the government, scientists and practitioners indifferent for a long time. In particular, one can notice this in the works of O. Bulavets, V. Wenger, O. Dyachuk, M. Chepeleva, R. Podolets, T. Saprykina, M. Timchenko, G. Tripolska, R. Yukhimets and others. The priority vectors for the “greening” of the energy sector were determined, the essence of the mechanism for stimulating the use of renewable energy sources (further – renewable energy sources) through “green” tariffs was revealed, etc. However, with the approval of the ESU, the implementation of which requires the formation of a new energy policy of the state, the development of new and changes to existing legislative and by-laws, there is a need for further research into the possibility and feasibility of implementing world experience into domestic practice.

Conclusion

Thus, according to the results of the study, the significance of draft law No. 4347 in the transformation of the energy industry of Ukraine from an outdated model of its functioning to a new “low-carbon” model was substantiated. The need for its revision in terms of the development of a mechanism for state support of participants in the decarbonization process with the funds of the State Decarbonization Fund was proved by indicating gaps, necessary changes and additions. It was emphasized the need to make additions to the Energy Strategy of Ukraine for the period until 2035 “Security, Energy Efficiency, Competitiveness” regarding the termination of cross-subsidization. Among them the following were mentioned:

- the coverage of cheap electricity for the population at the expense of high tariffs for industrial and budget consumers;
- the ensuring an attractive investment climate in the energy sector of the country’s economy and the mobilization of funds to the State Decarbonization Fund, the creation of which will contribute to the timely

implementation of the National Plan for Reducing Emissions from Large Combustion Plants and the fulfillment of Ukraine's obligations to reduce greenhouse gas emissions and environmental pollution.

REFERENCES

1. iPress. Як економити електроенергію вдома. URL: https://ipress.ua/articles/yak_ekonomyty_elektroenergiyu_vdoma_vchymosya_razom_20820.html (дата звернення: 16.02.2024)
2. Державні сайти України. Основні правила ощадливого використання електроенергії. URL: <https://sies.gov.ua/zvernennya-gromadyan/najbilsh-zapituvana-informaciya/osnovni-pravila-oshchadlivogo-vikoristannya-elektroenergiyi> (дата звернення: 16.02.2024)
3. Енерго збут транс. Як заощадити електроенергію. URL: <https://enerhozbuttrans.com.ua/news/energoefektyvnist/zaoshchadyemo-elektrychnu-energiyu/> (дата звернення: 16.02.2024)
4. Урбоекологія: Підручник. – Львів: Світ, 2001 – 440 с.

Кобець Марія Павлівна – студентка групи ЕКО-21Б, факультет будівництва, цивільної та екологічної інженерії, Вінницький національний технічний університет, м. Вінниця, e-mail: marikob.2002@gmail.com

Науковий керівник: Слободянюк Алла Анатоліївна – старший викладач кафедри іноземних мов, Вінницький національний технічний університет, м.Вінниця, e-mail: a.allavin@gmail.com

Kobets Maria Pavlivna – student, Faculty of Construction, Civil and Environmental Engineering, Vinnytsia National Technical University, Vinnytsia, e-mail: marikob.2002@gmail.com

Scientific Supervisor: Slobodianiuk Alla Anatoliivna – Senior Lecturer of the Foreign Languages Department, Vinnytsia National Technical University, Vinnytsia, e-mail: a.allavin@gmail.com