

Ukrainian State University of Railway Transport

Department of Management, Public Administration and HR Technologies

IMPLEMENTATION OF GREEN LOGISTICS PRINCIPLES IN THE ACTIVITIES OF NOVA POSHTA LLC BASED ON INTERNATIONAL EXPERIENCE

Explanatory Report and Analytical Calculations
to the Master's Qualification Thesis
under the educational program "Sustainable Logistics and Supply Chain Management"
specialty 073 "Management"

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Prepared by the Master's Degree Student
(second cycle of higher education)
(the work was performed independently in
accordance with academic integrity
principles)
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ABSTRACT

This qualification thesis includes 10 presentation slides and 97 A4 pages of the explanatory report, which contain 5 figures, 8 tables, and 98 literature sources. Keywords: GREEN LOGISTICS, DECARBONIZATION, SUSTAINABLE DEVELOPMENT, SUPPLY CHAIN, ESG STRATEGY.

The object of the research is the processes of managing the logistics activities of an enterprise under the conditions of implementing the principles of sustainable development.

The purpose of the study is to develop theoretical and practical foundations for forming an environmentally oriented logistics strategy aimed at improving the efficiency of the supply chain and reducing the negative environmental impact of logistics operations.

The qualification thesis investigates the theoretical foundations of green logistics, global trends in decarbonizing transport and logistics systems, and approaches used by international companies to green their supply chains. A comprehensive analysis of the logistics activities and environmental practices of Nova Poshta LLC is conducted, the scale of its environmental impact is assessed, and key challenges and opportunities for implementing environmentally oriented solutions are identified.

A set of practical measures is proposed for developing an environmentally oriented logistics strategy for the enterprise, including route optimization, the use of electric transport, the introduction of energy-efficient technologies at logistics terminals, the development of ecological packaging, and the improvement of ESG reporting systems.

АНОТАЦІЯ

Дана кваліфікаційна робота включає в себе 10 слайдів презентації та 97 аркушів пояснювальної записки формату А4, що містять 5 рисунків, 8 таблиць та 98 літературних джерел.

Ключові слова: ЕКОЛОГІЧНА ЛОГІСТИКА, ДЕКАРБОНІЗАЦІЯ, СТАЛИЙ РОЗВИТОК, ЛАНЦЮГ ПОСТАЧАННЯ, ESG-СТРАТЕГІЯ.

Об'єктом дослідження є процеси управління логістичною діяльністю підприємства в умовах реалізації принципів сталого розвитку.

Метою дослідження є розроблення теоретичних і практичних засад формування екологічно орієнтованої логістичної стратегії підприємства, спрямованої на підвищення ефективності ланцюга постачання та зниження негативного впливу логістичних операцій на навколишнє середовище.

У кваліфікаційній роботі досліджено теоретичні основи «зеленої» логістики, світові тенденції декарбонізації транспортно-логістичних систем та підходи міжнародних компаній до екологізації ланцюгів постачання. Проведено комплексний аналіз логістичної діяльності та екологічних практик ТОВ «Нова Пошта», оцінено рівень її впливу на довкілля та визначено ключові проблеми і можливості впровадження екологічно орієнтованих рішень.

Запропоновано комплекс практичних заходів щодо формування екологічно орієнтованої логістичної стратегії підприємства, що включає оптимізацію маршрутів перевезень, використання електротранспорту, впровадження енергоефективних технологій на логістичних терміналах, розвиток екологічної упаковки та удосконалення системи ESG-звітності.

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Faculty of Economics

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APPROVED

Head of Department

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September 09, 2025.

ASSIGNMENT FOR THE MASTER'S QUALIFICATION WORK Kateryna TARAN

1 Topic «Implementation of green logistics principles in the activities of Nova Poshta LLC based on international experience»

supervisor Nazarenko Iryna PhD in Economics, Associate Professor

approved by the Order of the Faculty of Economics dated February 07, 2025 No. 58/25

2 The deadline for submission of completed work by a higher education applicant is December 15, 2025.

3 Initial data, laws and regulatory legal acts of Ukraine and the EU that regulate activities in the field of environmental protection, decarbonization and logistics transport; international environmental management standards (ISO 14083, ISO 14001, ISO 50001), GHG Protocol and GLEC Framework emission assessment methodologies.

4 Contents of the settlement and explanatory note (list of issues to be developed) Theoretical and methodological foundations of the formation of environmentally friendly logistics. The concept of green logistics, principles of sustainable development, environmental management in supply chains. International experience in decarbonizing logistics and approaches of global companies to reducing emissions. The essence of the environmental strategy of a logistics enterprise. Environmental risks of logistics activities, methods for assessing the carbon footprint, digital tools for monitoring ESG indicators.

5 List of graphic material

1 Theoretical foundations of the implementation of the principles of "green" logistics – four slides. 2 Characteristics and comprehensive analysis of the activities of Nova Poshta LLC – two slides. 3 Mechanisms, strategies and innovations for the

implementation of "green" logistics in the activities of Nova Poshta LLC based on international experience – two slides.

6 Individual Section Consultants

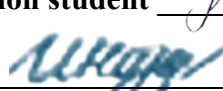
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7 Assignment Date September 09, 2025

CALENDAR PLAN

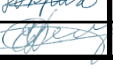
Stage name	Deadline stages of work	Note
1 Theoretical foundations and global experience of green logistics. Formation of the conceptual framework of the study.	10.11.2025	
2 Characteristics and comprehensive analysis of the logistics activities and environmental practices of Nova Poshta LLC.	15.11.2025	
3 Development of mechanisms, strategies, and innovations for implementing green logistics in the activities of Nova Poshta LLC based on international experience.	01.12.2025	
4 Graphic part	05.12.2025	

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