



Pathways towards Decarbonization of the Transport Sector in Moldova

The transport sector in Moldova faces significant challenges, including outdated infrastructure and an aging vehicle fleet. Additionally, there is a high dependence on fossil fuels, particularly diesel (70 percent), in the transport sector. Domestic freight transport is mainly handled by road, with a shift to rail in planning. The situation of the railways is in poor condition and the use of the railway lines is mostly by fossil fuel (diesel) powered trains. Moreover, the railway lines are not electrified. With EU accession on the horizon, Moldova is poised to receive substantial infrastructure investments. Additionally, in the backdrop of Russia's ongoing aggression against Ukraine, Moldova has emerged as a crucial pivot for supporting the export of Ukrainian agricultural goods while simultaneously striving to enhance its energy independence. Therefore, Moldova's transport sector is expected to grow and innovate. In line with the EU Green Deal and similar initiatives, it is key to ensure that upcoming investments and decisions align with the goal of climate neutrality.

This individual measure encompasses an analysis of the current state of Moldova's transport sector, focusing on emission sources and energy consumption patterns. The project's goals further involve the creation of three distinct scenarios to chart the path to climate neutrality. These scenarios serve as pathways, detailing a series of measures to promote emission-free vehicles across all modes of transport, revitalize infrastructure, and integrate renewable energy sources while considering innovative technologies.

Moldova's commitment to decarbonize its transport sector contributes to environmental preservation and mitigates climate change. By reducing emissions and adopting renewable energy, it fosters a cleaner, more sustainable

Main Facts	
Title	Pathways towards Decarbonization of the Transport Sector in Moldova
Focus/ Topic	Supporting climate strategies at national, regional, and municipal levels
Duration	01.11.2023 – 30.06.2024
Implementer	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
Country/ Region of Implementation	Moldova
Overall Budget	300.000,00 €

environment. Furthermore, this effort is expected to create job opportunities in renewable energy and clean transport,

strengthening the local job market. As capacity and expertise grow in sustainable transport solutions, Moldova not only gains economically but also enhances its ability to address future environmental challenges effectively.

Project Objective

The project aims to identify priority areas for decarbonization and project development trends over the next 25-30 years within the transport sector. The overarching project outcome is to provide specific forecasts and assessments of the transport sector aiming on the decarbonization of the transports sector and integrating them into national plannings and actions in Moldova.

Thematic priorities and activities

The project is structured around six outputs:

- 1) Inventory of the transport sector considering CO2 emissions
 - a. Comprehensive report detailing the current state of the transport sector in Moldova, emphasizing CO2 emissions, based on project research and analysis (by February 2024)
- 2) Assessment of development trends for the next 25-30 years with a focus on transport
 - a. Report forecasting development trends in the Moldovan transport sector for the next 25-30 years, highlighting expected changes in CO2 emissions and other relevant factors (by April 2024)
- 3) Development of 3 scenarios to achieve climate neutrality in the transport sector.
 - a. Documented report presenting three distinct scenarios for achieving climate neutrality within Moldova's transport sector, aiding in strategic planning (by April 2024)
- 4) Identification of potential measures for a decarbonization pathways
 - a. A comprehensive list and analysis of potential measures for a decarbonization pathway in the Moldovan transport sector, facilitating informed decision-making, including in view with EU-acquis guidelines (by April 2024)
- 5) Assessment of impacts and costs of the measures
 - a. Detailed assessment report highlighting the expected impacts and associated costs of the identified measures for decarbonizing the transport sector in Moldova (by April 2024)
- 6) Creation of a pathway for a climate-neutral transport sector in Moldova
 - a. An actionable pathway document outlining steps and strategies for achieving a climate-neutral transport sector in Moldova, providing a structured guide for

Results

Partner organizations involved/Implementing Partners

- Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
- Ministry of Infrastructure and Regional Development (MIRD), Moldova
- Ministry of Environment, Moldova

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

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Project period:
June 2017 to December 2024