

Project to improve the infrastructure for solid waste management in Mariupol

Project description	
Project initiator	Mariupol City Council
Project concept	<p>The project envisages upgrading the infrastructure for solid waste management (MSW) in Mariupol by: (i) reclamation of the existing landfill and limiting its impact on the environment, (ii) construction of the new waste sorting complex with the capacity of about 120 thousand tons / year, which can to ensure the recycling of all waste in Mariupol, (iii) construction of the new landfill map in accordance with current regulations and standards of the European Union and (iv) improvement of the system of collection and transportation of solid waste in Mariupol due to the promotion of separate waste collection.</p> <p>The implementation of the project will ensure efficient collection and sorting of solid waste with the removal of secondary raw materials and alternative fuels for the sale of the enterprise with income, which will lead to economical / reuse of resources and reduce waste disposal.</p>
Project goal	Provision of Mariupol with high-quality infrastructure for solid waste management, improvement of ecological condition and sanitary-epidemiological living conditions of the population.
Compliance with strategic documents and justification of priorities	<p>The implementation of the project corresponds to the tasks and measures defined by national and regional strategic documents, in particular:</p> <ol style="list-style-type: none"> 1. National Waste Management Strategy in Ukraine until 2030, approved by the order of the Cabinet of Ministers of Ukraine dated November 8, 2017 No. 820-r (Section "Ways and means of solving the problem" in the field of household waste and "Indicators of strategy implementation" to prepare for reuse and disposal of household waste); 2. Development strategies of Donetsk Region for the period up to 2027, Strategic goal 4 "Environmental safety and sustainable use of nature", Operational goal 4.2. "Sustainable management of waste and hazardous chemicals", Task 4.2.1. "Improvement of the system of collection and processing of solid waste"; 3. Development strategies of Mariupol "Strategy 2021", Strategic goal 3 "Improving the competitiveness of quality of life" in the direction of 12 "Ecology"; 4. Of the Draft Strategy for Solid Waste Management in Mariupol: Municipal Waste Management Plan 2020-20230, developed on March 25, 2020
Research of the problem that will be solved within the project implementation	Annually in Mariupol, 140-150 thousand tons of solid waste are produced. The entire amount of generated waste is disposed of at the only operating landfill located in the Left Bank district. The landfill is 80% full and its service life should end in 2024. In addition, according to the current legislation, from January 1, 2018, the placement of unsorted waste at the landfill is prohibited, and by 2030, there is the clear plan to reduce the volume of their disposal. This project helps to solve these problems and will improve the environmental situation in the city.
Estimated project cost, ths. UAH	645 075,7*
Project implementation mechanism	Loan from the European Bank for Reconstruction and Development against the municipal guarantee of Mariupol City Council
Main financial indicators of the project	Absent
Project implementation period	3 years (2022-2025)

Approximate sources of project funding	Loan from the European Bank for Reconstruction and Development and grant of the European Union
Project implementation stage	Project work (adjustment of design and estimate documentation and environmental and social assessment)
Stakeholders and expected outcome of the project	<p>Interested persons:</p> <ol style="list-style-type: none"> 1. European Bank for Reconstruction and Development; 2. Donetsk Regional State Administration; 3. Mariupol City Council; 4. Municipal Enterprise "Landfill for MSW" <p>Expected results of the project:</p> <ol style="list-style-type: none"> 1. Production of secondary raw materials up to 13.1 thousand tons / year; 2. Production of alternative fuel up to 38.7 thousand tons / year; 3. Reduction of solid waste disposal up to 30%; 4. Increasing the service life of the new landfill by 3-5 years.
Characteristics of the object (existing or newly created)	
Location of the object	87500, Donetsk Region, Mariupol, Yednosti Ave., 1
Description of existing facilities or those proposed to be created as part of the project	<p>Existing objects:</p> <ol style="list-style-type: none"> 1. Existing landfill for MSW with the area of 6.5 hectares. <p>Objects proposed to be created within the project implementation:</p> <ol style="list-style-type: none"> 1. Reclaimed existing landfill for MSW with the area of 6.5 hectares; 2. New waste processing complex with the capacity of about 120 thousand tons / year; 3. New landfill map with the area of 4.5 hectares in accordance with current regulations and standards of the European Union; 4. Improved system of collection and transportation of solid waste in Mariupol due to the promotion of separate waste collection.
Form of ownership	Communal property
Description of related infrastructure	<p>Access to transport infrastructure :</p> <p>Distance to the sea trade port - 17 km. The distance to the railway station - 10 km. Distance to the airport of Zaporizhzhia - 270 km</p> <p>Distance to communal infrastructure:</p> <p>Distance to 6 kV electrical substation - up to 2 km; Distance to the centralized water supply system - up to 0.5 km; Distance to the district heating system - more than 3 km; The distance to the gas pipeline - about 10 km.</p>
Land plot area, ha	17.3765
Land plot status	<p>Property type:</p> <p>Communal property</p> <p>Intended use:</p> <p>For placement and operation of main, subsidiary and auxiliary buildings and structures of technical infrastructure (production and distribution of gas, steam and hot water supply, collection, purification and distribution of water) for solid waste treatment activities (operation and maintenance of solid waste landfill)</p>

	<p>Actual use: For placement of landfill for MSW</p>
Territorial planning	<p>According to the master plan of Mariupol: The territory of industrial enterprises, the territory for landfills and dumps</p> <p>According to the zoning plan of Mariupol: Production zones of the 5th class of harmfulness. Detailed plan of the territory and its strategic ecological assessment in the process of development.</p>

Note: for the NBU exchange rate of UAH 31,014 / Euro as of July 29, 2020 in accordance with the Forecast of Special Economic Development of Ukraine for 2021-2023, approved by the Resolution of the Cabinet of Ministers of Ukraine of July 29, 2020 No. 671.

Contacts:

Tryfonov Mykola Heorhiyovych, Head of the Investment and Project Management Department of Mariupol City Council

Postal address: 87500, Donetsk Region, Mariupol, Myru Ave., 70

Phone number: +38 (096) 735-40-02

E-mail: nikolay.trifonov@mariupolrada.gov.ua