

Reconstruction of centralized drinking water supply of Mykolayivka

Project description	
Project initiator	Mykolayivka City Territorial Community
Project concept	Reconstruction of centralized drinking water supply. Improving the quality of drinking water supply, reducing non-production costs of drinking water during transportation to consumers, connecting new subscribers. Water supply to the city of Mykolaivka is carried out round the clock. The mode of operation of pipelines is self-flowing.
Project goal	Optimization of the water supply system of the city of Mykolayivka by carrying out reconstruction of the centralized water supply of drinking water of Mykolayivka, which will reduce non-production costs of drinking water, increase the reliability and quality of drinking water supply of the city, and reduce financial losses of the utility.
Compliance with strategic documents and justification of priorities	The project corresponds to the strategic goal 3 "Effective management and security in the face of external and internal challenges" operational goal 3.2. "Equal access of the population to basic social, administrative and communal services" of the Strategy of Development of Donetsk Region for the period till 2027 The project corresponds to the direction B "Development of the life support system in the community" of the Strategy of Development of Mykolaivka City United Territorial Community for the period till 2027.
Research of the problem that will be solved within the project implementation	The high degree of wear of the water supply system, constant damage to the water supply network, disconnection of obsolete electrical equipment from the water supply, makes this problem especially acute. This state of affairs causes the penetration of pollutants and microorganisms into the pipelines, worsens the sanitary and epidemiological condition and normal life of the city's residents. The implementation of the project will reduce the non-production costs of drinking water, increase the reliability and quality of drinking water supply in the city.
Estimated project cost, ths. UAH	The total cost of the project in total: UAH 262 656,714 ths. including I stage - UAH 125 598,567 ths., II stage - UAH 133 381,980 ths., III stage - UAH 3 676,167 ths.
Project implementation mechanism	Participation in state and international programs to receive funds for the project, possible co-financing from the local budget
Main financial indicators of the project	Not calculated
Project implementation period	The duration of the reconstruction is 87 months, incl. I stage - 24 months, II stage - 60 months, III stage - 3 months.
Approximate sources of project funding	Grant funds, budget funds (state and local budget)
Project implementation stage	Design and estimate documentation has been developed, the expert report has been received

Stakeholders and expected outcome of the project	<p>Target groups: The population of Mykolayivka as of January 1, 2021 is 14,319 people. Getting quality services; Utility enterprise - supplier: Reducing the financial costs of the utility by reducing water losses and replacing obsolete equipment with energy efficient</p>
Characteristics of the object (existing or newly created)	
Location of the object	20/14 Enerhetykiv Square, Mykolayivka city, Donetsk Region
Description of existing facilities or those proposed to be created as part of the project	<p>Reconstruction objects are divided into three stages (I, II, III) on 12 construction sites (No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12) with different number of start-up facilities in the stages of construction.</p> <p>The working design provides for the following three stages of construction:</p> <p>I stage of construction includes (five start-up facilities):</p> <ul style="list-style-type: none"> • 1st start-up facility - reconstruction of the 1st and 2nd ascents (restoration of existing water supply wells No. 3B, 7B, 9B, 10A and 11A, equipment with instrumentation and control devices, water meters and alarms, electric heating device; access and service roads, repair of the pumping station building of 2nd ascent, heating, ventilation and internal lighting of premises, installation of the drainage system, dismantling of existing and installation in their place of 2 new jet rupture reservoirs of 2nd ascent with the capacity of 250 m3 each, equipping the reservoirs with instrumentation and control devices); • 2nd start-up facility - reconstruction of the pipeline system between the 2nd and 3rd ascent (replacement of two lines of the main network of domestic and drinking fire water supply from the fence of the pumping station of the 2nd ascent to the fence of the pumping station of the 3rd ascent); • 3rd start-up facility - reconstruction of the 3rd ascent (repair of the building of the pumping station of the 3rd ascent with replacement of pumping power equipment, pipelines and shut-off valves, equipping with instrumentation and control devices and water meters; extension to the building of the pumping station operator 6.0 x 3.4 m, arrangement of heating and ventilation of the pump, internal lighting, grounding, repair of buildings of the barn, passage, chlorination, restoration of external lighting of the site, repair of the fence of the protection zone, due to satisfactory technical condition of building structures of existing tanks, capacity 2000 m3 each, repair and restoration of tanks working project is not provided. Reconstruction includes installation of control and measuring devices in tanks, installation of water meters on lines that supply water from Pyskunivskyi water intake, repair and restoration measures of tank chambers); • 4th start-up facility - reconstruction of the pipeline system between the 3rd and 4th ascent (replacement of 2 main water mains from the fence of the pumping station of the 3rd ascent to the fence of the pumping station of the 4th ascent); • 5th start-up facility - reconstruction of the 4th ascent (installation of 2 pumps in the pumping station of the 4th ascent, replacement of shut-off valves, repair of pumping, checkpoint building, replacement of power supply system, landscaping, replacement of technical pipelines of shut-off valves, installation of flow meters, restoration outdoor lighting). <p>II stage of construction includes (seven start-up facilities):</p> <ul style="list-style-type: none"> - 1st start-up facility - reconstruction of the pipeline system in Bilyaivka Village (construction of pipelines from the pumping station of the 3rd ascent to the High Frequency Transformer;

	<p>- 2nd start-up facility - reconstruction of the pipeline system in the private sector from Chkalova Str. (reconstruction of the pipeline system of the old part of Mykolayivka and the second microdistrict);</p> <p>- 3rd start-up facility - reconstruction of the pipeline system in the private sector from Tsentralna Str. (near the Central District Hospital) (reconstruction of the pipeline system in the private sector No. 1 of Mykolaivka from Yevropeiska Str. to the bldg. 132 at Mykolaivka Str.);</p> <p>- 4th start-up facility - reconstruction of the pipeline system in the private sector from Yevropeiska Str. (reconstruction of the pipeline system in the private sector No. 2 of Mykolaivka from bldg. 132 at Mykolaivska Str. to Andriivskiy Ave.);</p> <p>- 5th start-up facility - reconstruction of the pipeline system in the "old part" and 2nd Microdistrict, reconstruction of the pipeline system in the private sector No. 3 of Mykolaivka from Hrunskykh Str. to RTS);</p> <p>- 6th start-up facility - reconstruction of the pipeline system of the "Emergency Village" (reconstruction of the pipeline system of the "Emergency Village" and Elektrycha Station);</p> <p>- 7th start-up complex - reconstruction of the pipeline system of Bilyaivka, Mykolayivka. In these start-up facilities, replacement of the distribution network of the household and drinking fire-prevention water supply system of Mykolaivka is provided.</p> <p>III stage of construction includes (two start-up facilities):</p> <ul style="list-style-type: none"> • 1st start-up facility - construction of wells on the site of Pyskunivskiy water intake (arrangement of duplicating wells No. 4a, 5a, 8a, reconstruction of existing wells No. 4, 5, 8, equipment of wells with instrumentation and control devices, water meters and alarms, power supply of heating systems and networks . In well buildings No. 4, 5, 8 additional control stations of pumps SKN 1, SKN 2 and SKN 5 are installed and necessary electric cables are laid); • 2nd start-up facility - reconstruction of water treatment at the pumping station of the 3rd ascent (dismantling of the water treatment plant at the pumping station of the 3rd ascent), construction of the new electrolysis plant for disinfection of water with sodium hypochlore).
Form of ownership	Communal
Description of related infrastructure	Access to electricity and water supply systems is available
Land plot area, ha	the length of the drinking water supply system - 58957.4 m, the water intake area - 7.39 ha, the number of wells - 8, the number of pumping wells - 3.
Land plot status	communal property
Territorial planning	territory planning was not carried out

Contacts:

Korsun Olena Mykolaivna - the leading specialist of the Department of Economics and Investments

Phone number - +38 099 701 69 71

Email - invest-otg@ukr.net