



**WATER SUPPLY
SYSTEM**

Ukraine

Dnipropetrovsk region



Summary:

ME «Aulskiy Vodovid» of Dnipropetrovsk Regional Council» - is the largest provider of centralised water supply and sewerage services to the population and enterprises of the region. In addition, Aulskiy Vodovid supplies water to the water utilities of Dniprovskiy and Kamianskyi districts.



Covered population: 1 mln



Aim:

Modernisation of the chemical and bacteriological laboratory to improve the quality of water supply and treatment services, ensure prompt and high-quality laboratory and production control of drinking water and wastewater, and improve the quality of water supply and sewerage services.



List of equipment:

- steam steriliser with a voltage of 380 V and a power of 6 kW - 2 pcs.
- heating laboratory plate with a power of 2 kW and dimensions of 300x400 mm - 3 pcs.
- drying cabinet with voltage of 220 V and power of 2 kW - 2 pcs.
- laboratory refrigerator with a temperature range of +30C-+160C, volume of 250-330 litres, and a freezer up to 50 litres - 1 pc.
- air thermostat with a temperature range of +30C-+400C, 150 litres - 2 pcs.
- water distiller with a voltage of 220 V and a capacity of 4 l/h - 2 pcs.
- analyser for the content of oil products in drinking water and wastewater - 1 pc.
- other equipment in accordance with the existing reconstruction project.



Mechanisms of cooperation:

- assistance from the partner regions
- technical humanitarian assistance from an international organization
- targeted grant programme



Beneficiary

ME «Aulskiy Vodovid» of Dnipropetrovsk Regional Council»



Estimated cost: € 42,1 thousand



**WATER SUPPLY
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Ukraine

Dnipropetrovsk region



Summary:

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Covered population: 1 mln



Aim:

The modernisation of the equipment at Sewage Pumping Station No. 2a will improve the quality of wastewater services, ensure uninterrupted and trouble-free operation of the station and reduce its operating costs.

The new energy-efficient pumping units are expected to reduce electricity consumption by 20%.



List of equipment:

- pump with a capacity of 60 m³/h; lifting height of 20 m; with a 6.2 kW electric motor - 2 pcs.
- pump with a capacity of 1040 m³/h; lifting height of 75 m - 1 pc.
- pump with a capacity of 2400 m³/h, lifting height of 75 m, with an electric motor with a capacity of 619.52 kW - 4 pcs.
- electric motor with a capacity of 710 kW - 4 pcs.
- control cabinet based on a 710 kW frequency converter - 2 pcs.
- other equipment in accordance with the existing reconstruction project.



Mechanisms of cooperation:

- assistance from the partner regions
- technical humanitarian assistance from an international organization
- targeted grant programme



Beneficiary

ME «Aulskiy Vodovid» of Dnipropetrovsk Regional Council»



Estimated cost: € 2 mln



**WATER SUPPLY
SYSTEM**

Ukraine

Dnipropetrovsk region



Summary:

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Covered population: 1 mln



Aim:

The modernisation of the equipment at Sewage Pumping Station No. 4 will improve the quality of wastewater services, ensure uninterrupted and trouble-free operation of the station and reduce its operating costs.

The new energy-efficient pumping units are expected to reduce electricity consumption by 20%.



List of equipment:

- electric motor with a capacity of 710 kW - 4 pcs.
- pump with a capacity of 2400 m³/h, lifting height of 75 m, with an electric motor with a capacity of 619.52 kW - 4 pcs.
- control cabinet based on a frequency converter with a capacity of 710 kW - 2 pcs.
- electrical switchgear with a capacity of 6 kV - 6 pcs.
- electrical switchgear with a capacity of 0.4 kV - 15 pcs.
- other equipment in accordance with the existing reconstruction project.



Mechanisms of cooperation:

- assistance from the partner regions
- technical humanitarian assistance from an international organization
- targeted grant programme



Beneficiary

ME «Aulskiy Vodovid» of Dnipropetrovsk Regional Council»



Estimated cost: € 2.3 mln



**WATER SUPPLY
SYSTEM**

Ukraine

Dnipropetrovsk region



Summary:

ME «Aulskiy Vodovid» of Dnipropetrovsk Regional Council» - is the largest provider of centralised water supply and sewerage services to the population and enterprises of the region. In addition, Aulskiy Vodovid supplies water to the water utilities of Dniprovskiy and Kamianskyi districts.



Covered population: 1 mln



Aim:

The modernisation of the equipment at Sewage Pumping Station No. 5 will improve the quality of wastewater services, ensure uninterrupted and trouble-free operation of the station and reduce its operating costs.

The new energy-efficient pumping units are expected to reduce electricity consumption by 20%.



List of equipment:

- drainage pump with a capacity of 22.5 m³/h, lift height of 16.1 m, with a 1.1 kW electric motor - 1 pc.
- pump with a capacity of 596.9 m³/h, lifting height of 31.7 m, with an electric motor of 75 kW - 3 pcs.
- air handling unit with filters, servo-driven dampers and electric heater, with a capacity of 6300 m³/h - 1 pc.
- other equipment in accordance with the existing reconstruction project.



Mechanisms of cooperation:

- assistance from the partner regions
- technical humanitarian assistance from an international organization
- targeted grant programme



Beneficiary

ME «Aulskiy Vodovid» of Dnipropetrovsk Regional Council»



Estimated cost: € 460 thousand



**WATER SUPPLY
SYSTEM**

Ukraine

Dnipropetrovsk region



Summary:

ME «Aulskiy Vodovid» of Dnipropetrovsk Regional Council» - is the largest provider of centralised water supply and sewerage services to the population and enterprises of the region. In addition, Aulskiy Vodovid supplies water to the water utilities of Dniprovskiy and Kamianskiy districts.



Covered population: 1 mln



Aim:

The modernisation of the equipment at Sewage Pumping Station No. 13 will improve the quality of wastewater services, ensure uninterrupted and trouble-free operation of the station and reduce its operating costs.

The new energy-efficient pumping units are expected to reduce electricity consumption by 20%.



List of equipment:

- pump with a capacity of 260 m³/h, lifting height of 22 m, complete with control system, pressure sensors and 30 kW electric motor - 3 pcs.
- explosion-proof fan with a capacity of 4900 m³/h, a speed of 1000 rpm; 1.1 kW electric motor - 2 pcs.
- air handling unit with filters, electric servo-driven dampers and a heater with a capacity of 3800 m³/h, 44 kW electric motor - 1 pc.
- air handling unit with filters, servo-driven dampers, electric heater with a capacity of 600 m³/h, 9 kW electric motor - 1 pc.
- other in accordance with the existing reconstruction project.



Mechanisms of cooperation:

- assistance from the partner regions
- technical humanitarian assistance from an international organization
- targeted grant programme



Beneficiary

ME«Aulskiy Vodovid» of Dnipropetrovsk Regional Council»



Estimated cost: € 216 thousand



**WATER SUPPLY
SYSTEM**

Ukraine

Dnipropetrovsk region



Summary:

ME «Aulskyi Vodovid» of Dnipropetrovsk Regional Council» - is the largest provider of centralized water supply and sewerage services for the population and enterprises of the region. In addition, Aulskyi Vodovid supplies water to the water utilities of Dniprovskiyi district. The project envisages the installation of a decentralized energy supply microgrid for three pumping stations of the water supply system



Covered population: 1 mln



Aim:

Ensure energy sustainability of the water supply facilities in Dniprovskiyi and Kamianskyi districts during a forced power outage.

A part of the water utility's decentralized energy consumption will be provided by renewable energy sources.



List of equipment:

- **Pumping station 1:** gas turbine generators with a capacity of 1.3 MW PV, 2 x 1 MW, connection to the main gas pipeline or LPG reservoir, control system, frequency converter.
- **Pumping station 2:** gas turbine generators with a capacity of 2 MW PV, 2 x 1 MW and control system.
- **Pumping station 3:** gas turbine generators with a capacity of 0.4 MW PV, 2 x 0.65 MW, connection to the main gas pipeline or LPG reservoir, control system, static frequency converter.



Mechanisms of cooperation:

- assistance from the partner regions
- technical humanitarian assistance from an international organization
- targeted grant programme



Beneficiary

ME«Aulskyi Vodovid» of Dnipropetrovsk Regional Council»



Estimated cost: € 17 mln