



ReBuild Ukraine

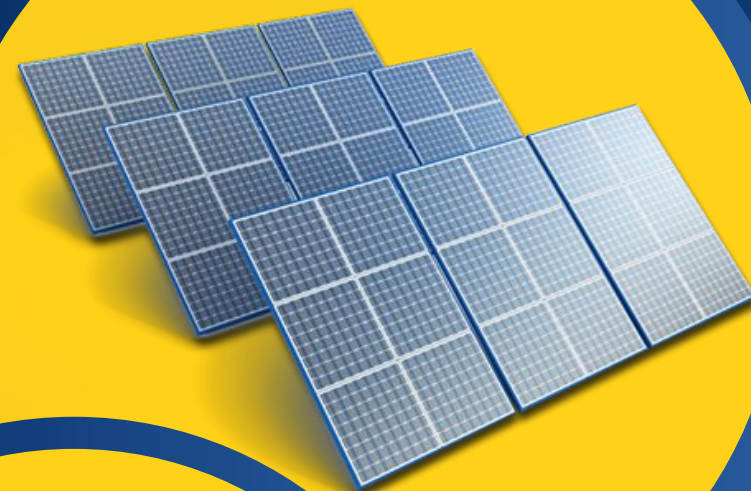
Infrastructure restoration

CE CHERNIHIVVODOKANAL

Restoration and development of water supply and wastewater infrastructure using modern energy efficiency and energy independence solutions

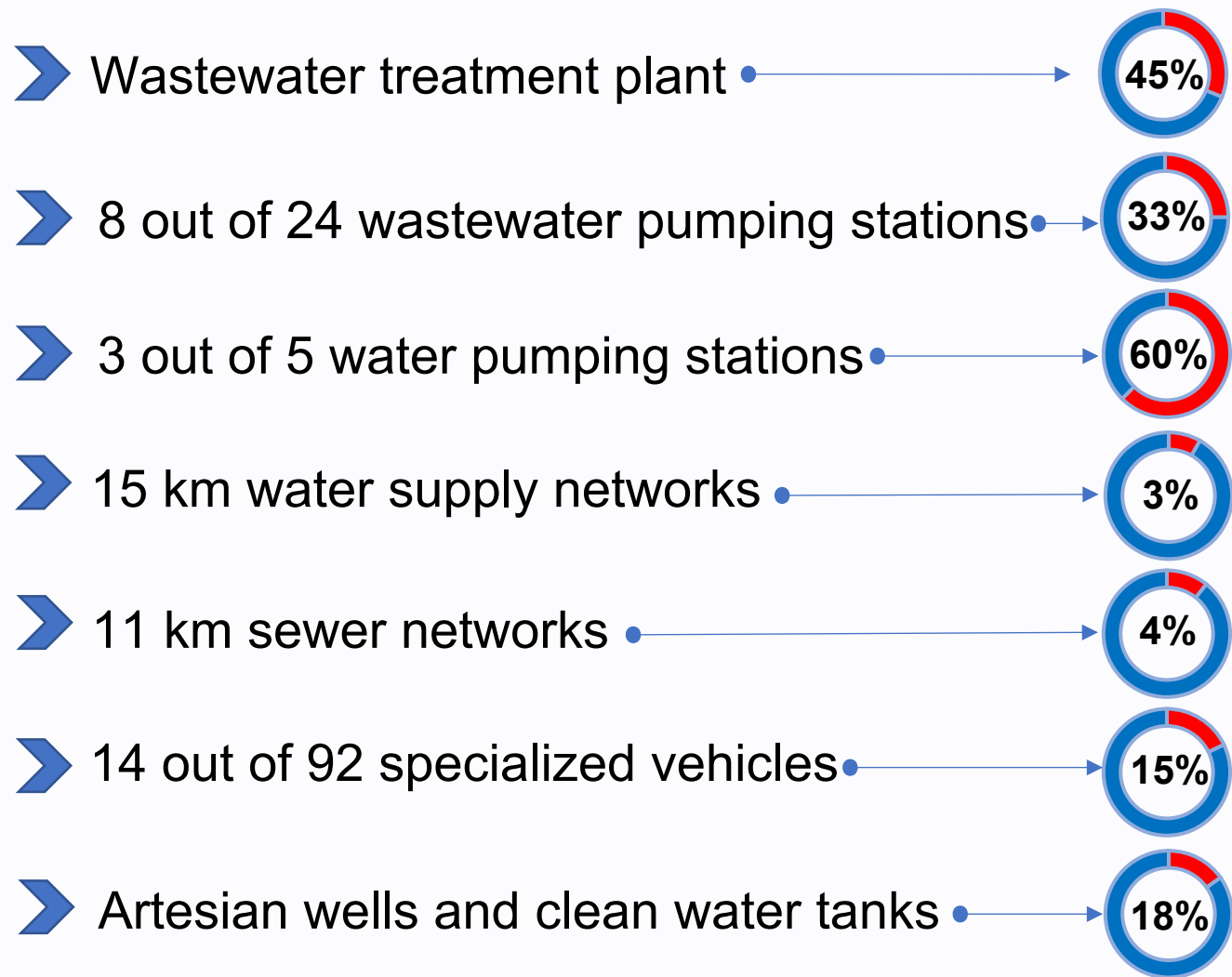


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As a result of military actions were damaged



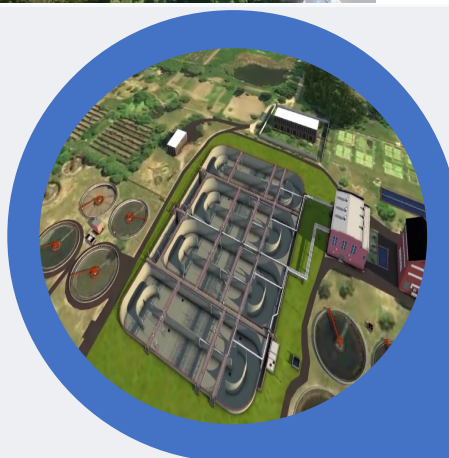
 **The total cost of rebuilding
Chernihivvodokanal's facilities €82
M**

Wastewater treatment plant



The Austrian company BSS Consultant GmbH developed a Feasibility Study for the comprehensive reconstruction of the WWTP.

Total cost - €36 M



WWTP in Chernihiv were built over 60 years ago and provide wastewater treatment for 300,000 residents.

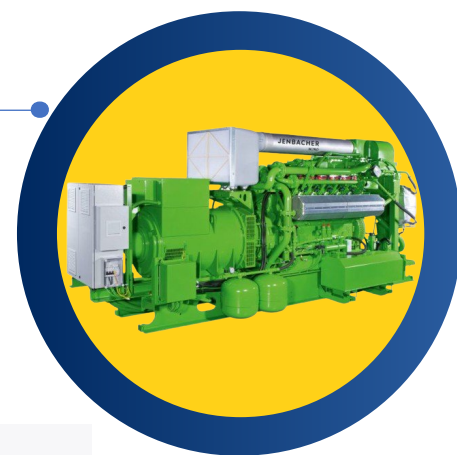
This is one of the main energy-intensive facilities of the enterprise that requires comprehensive modernization to meet current technological and energy efficiency standards.

Electricity Consumption (thousand kWh/year)



Cogeneration unit

In 2024 CE «Chernihivvodokanal» installed a cogeneration unit Jenbacher JMS 312 GS-N.L as an alternative source of electrical power for the WWTP



Total capacity 1031 kW:

396 kW
Thermal
energy



635 kW
Electrical
energy

Cogeneration plant

Since September 2025, following attacks on the city's energy infrastructure, the cogeneration unit has been the only source of electricity for the WWTF. After reconstruction, the cogeneration unit will be able to operate on biogas.

Reconstruction of the air supply system

As part of the reconstruction project, the company replaced outdated, energy-intensive air blowers with modern Sanitaire Turbo Max 200-C060 turbo blowers.



This replacement has resulted in annual electricity savings of 640,000 kWh, equivalent to €105,000

Need for a Solar Power Plant

To achieve maximum energy efficiency and independence of the WWTF, a project has been developed to install a **solar power plant** with a capacity of **800 kW** and an **energy storage system of 400 kW**.

Project cost - **€832,000**

To ensure the successful comprehensive reconstruction of the WWTF along with the implementation of the SPP project, it is necessary to attract **investments** (grants and low-interest loans).



Project Implementation Will:
Enable storage of surplus electricity during low consumption hours and feed it back into the network during peak demand periods.
Improve the stability of the energy system and the efficiency of renewable energy use.



Estimated annual income from electricity sales - €135,000

2025

**THANK YOU
FOR YOUR ATTENTION!**



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info@water.cn.ua

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