

## The reconstruction of the local wastewater treatment plant and waterworks in Leova city, Moldova



The target of this project was to improve health and environmental situation in Leova city. Leova, located in south-western Moldova on the border with Romania, is situated on the bank of the Prut river. The river is the only source of drinking water for local inhabitants but unfortunately also the final destination of all wastewaters from the city and surrounding villages. The negative impacts of this situation were obvious, including polluted individual sources of drinking water, shallow wells etc. The first objective of this project was focused on the reconstruction of the local wastewater treatment plant. Before doing so, technical analyses, drawings and reports were produced and later on agreed by the local water and sanitation company. In 2007, after completion of all preparatory work and acquiring all necessary permits from Moldovan authorities, wastewater treatment was reconstructed. The new technology occupied only around 10% of the previously needed ter-

ritory, and consumed only fraction of the energy (approx. 25 kW compared to previously needed 3 x 650 kW). In addition, removals of phosphorus and de-nitrification phase were also included in the treatment process. The technology was equipped with a remote control unit and operated by two people, compared to 15 persons before.

In 2007, the preparation phase for reconstruction of the local waterworks was gathered. This technology had serious treatment problems with removal of non-dissolved substances, especially during flood situations, when the large quantity of light soil particles was present in the treated water. The reconstruction of the waterworks took place in 2008, and was accomplished through serious upgrade of the chemical dosing unit. Lastly, the automatic regime of dosing in dependence on volume of intake water was also installed.

The consultancy in the area of water tariffs to the local water and sanitation company was also provided, along with the training of



members of staff and the campaign raising awareness of rational use of water of local citizens. Involvement of the local municipality in the project implementation was a great part of the project success, as the project team had got all necessary support, incl. involvement of the local building department in preparation and clearing both sites and building necessary constructions.



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- 1 The upgraded activation level of the wastewater treatment plant in Leova, August 2008.
- 2 The activation tank of the wastewater treatment plant in Leova during installation of the technology, November 2007.
- 3 The chemical unit dosing in water works in Leova, June 2008.
- 4 Training of local specialists in installation of decanting machine in activation tank, wastewater treatment plant Leova, November 2007.
- 5 Installation of new flow-meters in waterworks Leova, June 2008.



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