

## Project

Reconstruction and modernization of wastewater treatment facilities for biogas production and cogeneration in the city of Lviv in order to reach the standards of EU/HELCOM

## Investment

€26.5 million EBRD loan

€5 million NEFCO loan

€7.5 million Grant of the Eastern Europe Energy Efficient Partnership Foundation

€4 million City budget

Total: €31,5 million

## Characteristic of the wastewater treatment system

General design capacity of facilities- 490 thous. m<sup>3</sup> /day

Actual average inflow- 350 thous. m<sup>3</sup>/day

Equipment and facilities depreciation ~ 80%

Current processing procedure provides pumping of the sewage sludge to the sludge lagoons for storage

## The main technical and economic indicators

- 128 600 tons annual CO<sub>2</sub> reduction
- 39 400 MW energy production
- Receiving of biogas with methane content approximately 65%
- Biogas output 42 000 cubic metres/day;
- Excess electricity for the purposes of wastewater treatment plants 35,7 MWh/year
- Reduction of sludge volumes by 25-30 %
- Enhancing of the quality of wastewater which inflow to the Baltic sea basin

## Project components

- Reconstruction of wastewater treatment plant 1-2
- Reconstruction of wastewater treatment plant 3-4
- Construction of sludge hydrolysis station
- Construction of biogas production and cogeneration facilities
- Construction of grit chambers

## Current situation

- Construction of biogas production and cogeneration facilities

Tendering process

- Construction of grit chambers
- Tendering process - final stage

