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. m3 /day
Actual average inflow– 350 thous. m3/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_2 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