

REFERENCES

Energy recovery from waste water

Customer

City of Leverkusen

Project

Offices, laboratories, doctors, wellness, fitness, shopping

Cost

Total energy plant EUR 480'000

History

Installation Fall 2002
Operation Fall 2003



PROJECT AND ENERGY DATA

- Waste water flow	Ca. 21 l/s	The so called health building was designed to sell health to the clients and to deliver healthy energy to these clients. The sewer pipes were pressed through the ground. Therefore the heat exchangers could not be installed in the concrete pipe plant. They were brought in the sewer built in concrete elements on rails
- Length of heat exchanger	120 m	
- Heat extraction from waste water	170 kW	
- Heat pump performance	242 kW	

PROJECT / CONSTRUCTION / SPECIALITY

- First plant in Germany
- Peak heating load is covered with the city district heating system.
- The heat exchangers are installed in concrete elements, which were installed in the new sewer
- CO₂-reduction 200 t / a
- Reduction in primary energy use 65 %



OUR ENGINEERING SERVICES

- Feasibility studies (project)
- Potential studies (city)
- Project analysis
- Project
- Tender
- Contracting
- Operation
- Quality control