

## REFERENCES

### *Energy recovery from waste water*

#### Customer

Building group Maienried Wülflingen, L+B AG HGV,  
Sprecher Söhne AG Neftenbach, Zürich CH

#### Project

Maienried, Winterthur-Wülflingen  
48 apartments

#### Cost

Total Energy plant € 300'000.00

#### History

Installation Mai 2006  
Operation October 2006



## PROJECT AND ENERGY DATA

- Waste water flow	Ca. 11 l/s	The master energy plan of the city of Winterthur (pop 135'000) showed, that the place for the project was exceptional for sewage heat recovery. An analysis showed, that heating energy could be produced 15-20% cheaper than with oil or geothermal energy. The COP of the heat pump ist 4.65 75 % of the energy for heating and domestic hot water is produced from sewage.
- Lengt of heat exchanger	39 m	
- Heat extraction from waste water	64 kW	
- Heat pump performance	80 kW	

## PROJECT / CONSTRUCTION / SPECIALITY

- Installation in an existing sewer
- Extension possible for adjacent buildings
- CO<sub>2</sub>-reduction 120 t / a
- Antifouling System



## OUR ENGINEERING SERVICES

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