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Energy from Wastewater



Wastewater contains thermal energy, and we can recover some of this energy with heat pumps.

With our [HUBER ThermWin system](#) for heat recovery from sewage we withdraw sewage from the sewer, screen it, pump it through above-ground Heat Exchangers, and then return it back into the sewer.

Because we screen and pump the sewage, we can use [compact and cost-effective heat exchangers](#), wherein we generate a well-defined and turbulent flow for efficient heat transfer.

For screening we use a vertical screw screen [HUBER Pumping Stations Screen ROTAMAT® RoK4](#) that is compact and lifts the screening through its vertical auger. Returned sewage flushed the lifted screenings over a chute back into the sewer.

Products

- [HUBER Heat Exchanger RoWin](#)
- [HUBER Pumping Stations Screen ROTAMAT® RoK4](#)

Benefits

- Efficient use of renewable and sustainable energy
- Unlimited availability, secure supply
- Local and free, decentralized heat source
- Cost-effective from a dry weather flow of around 10 L/s
- Negligible effect on wastewater treatment (sewage cooling by 1 – 2 °C only)
- Independence from sewer size

- Use of compact, efficient and cost-effective heat exchangers
- Heat exchangers above ground (easy access for installation and maintenance)
- Little construction work (narrow manhole beside sewer)
- Minimal interference of existing sewers (only drilling of two holes)

Case Studies

- Energy input to the heating instead of sewage: Technische Hochschule Mittelhessen, a university of applied science, uses HUBER ThermWin for heating and cooling with wastewater
- Energy from wastewater - the HUBER RoWin Heat Exchanger is becoming increasingly popular
- Three HUBER projects for wastewater heat recovery in Switzerland
- First HUBER ThermWin plant for wastewater heat recovery in Switzerland
- Economic efficiency of heat recovery from wastewater
- HUBER ThermWin utilizes wastewater heat
- Reducing the discharge temperatures of industrial wastewater treatment plants – utilisation concepts for excess heat

Downloads

 [Brochure: HUBER Heat Exchanger RoWin](#) [pdf, 390 KB]
Further information

 [Brochure: Heat Recovery from Wastewater \(HUBER ThermWin process\)](#) [pdf, 412 KB]

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