

HEATING AND HOT WATER GENERATION USING A MUNICIPAL WASTEWATER SOURCE

THE SITE: SPORTS HALL AND FAMILY CENTRE

A newly renovated family centre and sports hall in Germany.

CONCEPT

A partial flow of wastewater (5 l/s) is taken from a combined sewer running under the premises. The wastewater flow is delivered to a screen for mechanical pre-treatment via a pumping shaft. The effluent from this screen flows by gravity into the HUBER RoWin Heat Exchanger and then back into the sewer taking along the screened coarse material. A special feature of this project is that the complete mechanical equipment is mounted in a 20" container installed above ground.

HUBER ThermWin® - A SYSTEM FOR HEAT RECOVERY

A HUBER RoWin Heat Exchanger has been installed to extract up to 45kW of thermal energy from the wastewater. With an average COP of 4.0 the associated heat pump provides a heat output of approximately 60 kW.

BENEFITS

- ◆ Primary energy demand reduced by 60%
- ◆ Provides the basic load for heating and hot water production
- ◆ Use of a regenerative energy source



Please contact us if you would like to know more about our Wastewater Heat Recovery Solutions:

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