HUBER TECHNOLOGY
WASTE WATER Solutions

IFAT Excursion to Innsbruck May 17, 2018

Sewage Treatment Plant Innsbrucker Kommunalbetriebe (IKB)

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Register for the excursion to STP Innsbruck

Fax: 08462/201-279 or rem@huber.de

☐ I will participate in the excursion on May 17, 2018.

☐ II will be unable to participate but would appreciate if you offered me another visit date.

Title, First Name, Second Name

Function

Company / Organisation

Street / No.

Post Code / Town/City

E-Mail

Place / Date Signature

The number of participants is limited. Registration will be accepted on a first-in-first-serve basis as received.

Sewage sludge drying on STP Innsbruck

Innsbruck, the capital city of Tyrol, has approximately 130,000 inhabitants. The city and the 14 neighbouring municipalities produce up to 145.000 m³ wastewater daily, this is clarified on the sewage treatment plant of Innsbrucker Kommunalbetriebe (IKB).

The 320 m³ thin sludge generated in the clarification process is dewatered mechanically by a HUBER Belt Thickener Drainbelt and six HUBER Screw Press Q-Press 440.0 units. The belt thickener has been operated on site since 2006, the screw presses since 2008. In 2017, IKB installed additionally a HUBER Belt Dryer BT 16.

Through co-fermentation, adding approximately 70 m³ biowaste to the thin sludge, the wastewater treatment plant produces approximately 9,000 m³ biogas per day that is converted into heat and electric energy in two block heat and power plants. The generated exhaust heat is used in the operating medium temperature range of the belt dryer. The high temperature range supply comes from a 1,800 kW hot water boiler that is also operated with biogas at a temperature of 140 °C. Due to the heat recovery concept of the belt dryer more than 400 kW_{th} can be fed to a district heating network to which the indoor swimming pool of the former Olympic Village and a nearby lake restaurant are connected.

Convincing advantages

- Heat recovery of more than 400 kW_{th} on a temperature level of 70 °C
- Automated cleaning of the heat exchanger for heat recovery
- Low specific thermal energy consumption, maximum 0.8 kWh_{th}/kgH_2O
- Two-zone drying on different temperature levels
- Intelligent throughput control with the focus on constantly maximum water evaporation
- Optimal drying conditions due to sludge feeding with the HUBER Extruder
- CO_2 savings of 400 t per year through reduction of sludge transports due to a volume reduction in excess of 400 %

HUBER Extruder for feeding the dewatered sewage sludge

Program of May 17, 2018

09:30 Departure from IFAT trade fair centre

12:00 Arrival on STW Innsbruck

- Welcome
- Visit of the plant

14:00 Return to IFAT

16:30 Arrival at IFAT trade fair centre

Participants are requested to meet at the HUBER stand before departure from Munich. Our ladies at the information desk will help you find the meeting point.

HUBER Belt Dryer BT 16 with condensation stage