


## BHU Umwelttechnik GmbH



Increasing water scarcity in the world calls for sustainable solutions in the face of drought, population growth and outdated infrastructure. BHU Umwelttechnik GmbH offers state-of-the-art technologies, processes and systems for water treatment, wastewater and sludge treatment.

BHU Umwelttechnik GmbH covers the entire spectrum of processes and technologies for water and sludge treatment for municipal and industrial applications - for new plants as well as for upgrading existing establishments. Our know-how makes us a reliable partner who supports you in all phases of the project, from the planning through to the ready-to-operate plant.

Our Homepage provides you an overview of our range of services and our core competencies in the areas of process engineering and project management for water technology plants.

Our engineers specialize in the physical, chemical, biological and thermal aspects of water technology processes, providing you with the best possible solution for your job. We determine the optimal treatment stages and integrate them into a holistic, technically and economically optimal plant.

The know-how and many years of experience of our employees enables us to process all types of water resources and to produce the desired water quality. Our in-house technology spectrum offers the necessary prerequisites for this.

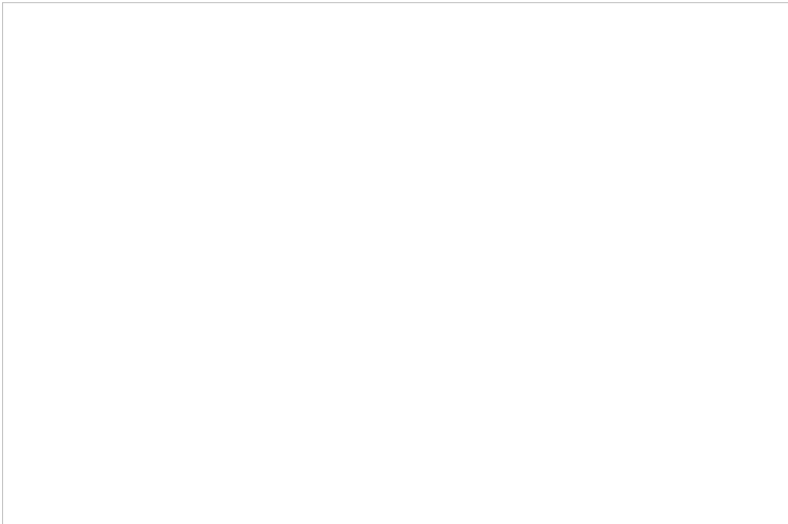
BHU Umwelttechnik GmbH has deep know-how, being predestinated to solve almost every technology and process requirement in water, wastewater and sludge treatment in both dimensioning and implementation. Furthermore, we are using advanced and unique technologies for, chemical-physical, biological and thermal applications.

For some applications - such as the high-performance flocculation and sedimentation reactor LHPS -

BHU Umwelttechnik GmbH has issued technological licences in several countries.

BHU Umwelttechnik GmbH is highly experienced in LHPS and BAF technology applied to municipal and industrial wastewater treatment applications.

The StR process furthermore offers holistic treatment possibilities for municipal sewage sludge providing the following advantages:

- highest production of electric power
  - production of ashes instead of residual waste
  - recovery of nutrients like phosphorous and nitrate as a fertilizer value
- 

You can add Youtube or Vimeo videos here.  
Enter here your PDF Download files.

**Europe (without Danube region)**

- [Belgium](#)
- [France](#)
- [Germany](#)
- [Italy](#)
- [Netherlands](#)
- [Poland](#)
- [Russian Federation](#)
- [Spain](#)
- [Switzerland](#)
- [Turkey](#)
- [United Kingdom](#)

**Danube region**

- [Austria](#)
- [Bosnia and Herzegovina](#)
- [Bulgaria](#)
- [Croatia](#)
- [Czech Republic](#)
- [Hungary](#)
- [Moldova, Republic of](#)
- [Montenegro](#)
- [Romania](#)
- [Serbia](#)
- [Slovakia](#)
- [Slovenia](#)
- [Ukraine](#)

**North America**

- [Canada](#)
- [United States](#)

**Asia**

- [China](#)
- [India](#)
- [Japan](#)

Check here the environmental awards you got in past.  
please fill in your areas of competence

2000  
10-50

5-10M

[Consultant](#)

[Engineering Company](#)

[Research](#)

set your environmental networks

## LHPS

**Clarification (LHPS)** – LHPS Reactor – Precipitation, flocculation, sedimentation, clarification and sludge thickening in a compact structure

- High process stability also at changing raw water conditions
- High outlet quality
- High sludge concentration (integrated thickener)
- Minimal space requirement (<35% compared to conventional solutions)

## Biologically Aerated Filtration (BAF) – Biofiltration

**Biologically Aerated Filtration (BAF) – Biofiltration** – BOD & COD- removal, nitrification, de-nitrification of wastewater and polluted surface water | Biology and sludge retention in a compact structure

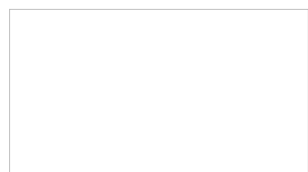
- High biological performance
- Fully automatic operation with load-dependent backwashing
- Modular multi-stage structure for carbon removal, nitrification and pre- and post-denitrification
- Space requirement <50% compared to conventional systems
- Full enclosure possible

## BiosS-Treat®-Filtration / Reverse Osmosis (RO)

**BiosS-Treat®-Filtration / Reverse Osmosis (RO)** – Patent protected process / Biologically activated media filtration and biostatics dosing | TOC removing precursor for reverse osmosis | Prevention of biofouling

- Drastic extension of the cleaning intervals of reverse osmosis systems for surface water use
- Maximized life of reverse osmosis membranes
- Significant operating cost savings and protection of the environment

## Top Harvest Yanchang Coal – Industrial waste water treatment



Top Harvest Yanchang Coal, Yan'an, P.R.C.– Industrial waste water treatment by precipitation, flocculation and sedimentation (BHU-reactor LHPS), Biofiltration, Flotation, BiosS-Treat®- Technology as pretreatment for Reverse Osmosis incl. commissioning

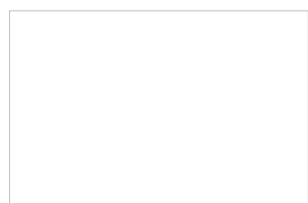
**Raw water type:** Industrial waste water

**Product water:** Treated waste water for discharge into surface waters

**Capacity:** 700 + 800 m<sup>3</sup>/h

**Technology:** LHPS reactor, Dissolved air flotation, AO Biology Biological aerated filters (BAF), Sand filtration, AC Filtration

## Südzucker Zeitz PWT – Process water treatment



Südzucker Zeitz PWT, Germany – Design, engineering, supply of special equipment, installation, commissioning of the process water treatment plant

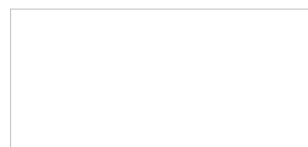
**Raw water type:** River water (Weiße Elster)

**Product water:** Treated river water for use as process water

**Capacity:** 220 m<sup>3</sup>/h

**Technology:** LHPS reactor – 1 x 250 m<sup>3</sup>/h, BiosS-Treat® Filtration – 3 x 110 m<sup>3</sup>/h, Reverse Osmosis

## Weihei Jingqu – Municipal wastewater treatment



Weihei Jingqu, Jingqu , P.R.C. – Municipal wastewater treatment plant with precipitation, flocculation and sedimentation (BHU- reactor LHPS) and 3- stage biofiltration incl. commissioning

**Raw water type:** Municipal waste water

**Product water:** Treated waste water for discharge into surface waters

**Capacity:** 50.000 m<sup>3</sup>/d

**Technology:** LHPS reactor 4 x 520 m<sup>3</sup>/h, Biofiltration 3 x 694 m<sup>3</sup>/h

Einsteinstraße 57

71229 Leonberg

Germany

[info@bhu-et.de](mailto:info@bhu-et.de)

071523535465

<https://www.bhu-et.com>

enter Xing url

<https://www.linkedin.com/company/bhu-umwelttechnik-gmbh-leonberg/>

[Flag profile](#)

## BHU Umwelttechnik GmbH

Julia

Reichert

Marketing

07152 3588860

[Contact person by email](#)

Address

- [Deutsch](#)
-