Anaerobic Waste Water Treatment Plant
Juice-Production Industry

Project: FSP

Location: Mönchengladbach, Germany

Commissioning: May 2011

Scope of Supply:

Delivery and assembling of an anaerobic waste water treatment plant for a juice-production company.

The core of the technology is the High Performance Anaerobic Reactor (**HPA**). It gets waste water feed by two mixing- and equalization tanks where a pre-acidification process takes place.

Two heat exchangers ensure a temperature inside the reactor in a mesophillic range.

All pump stations are designed in redundant style.

The biogas is used internally for the steam generator inside the production-area.

Technical Data:

Volume Mixing- and Equalization Tank:	2 x 100 m³
Volume Anaerobic Reactor:	360 m³
Power of Heat-Exchanger:	960 kW
Average COD-Degradation:	5.000 kg/d
Biogas-Production at Design Point:	1.900 Nm³/d

Advantages:

- Energy-Reuse (biogas)
- High degree of automation
- Low amount of surplus/excess sludge
- Low required space through tall and slim design of the tanks

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