

Water Management

Sappi – Ehingen Germany

Extension of the existing Waste Water Treatment Plant



Sappi Fine Paper Europe, Plant Ehingen, Germany placed an order with BAMAG for the process design, supply, erection and commissioning of an anaerobic stage.

BAMAG was again ordered for the process design, supply, erection and commissioning of an other anaerobic stage.

The extension of the plant with the biogas reactors enabled the existing plant to be extended without disrupting operation.

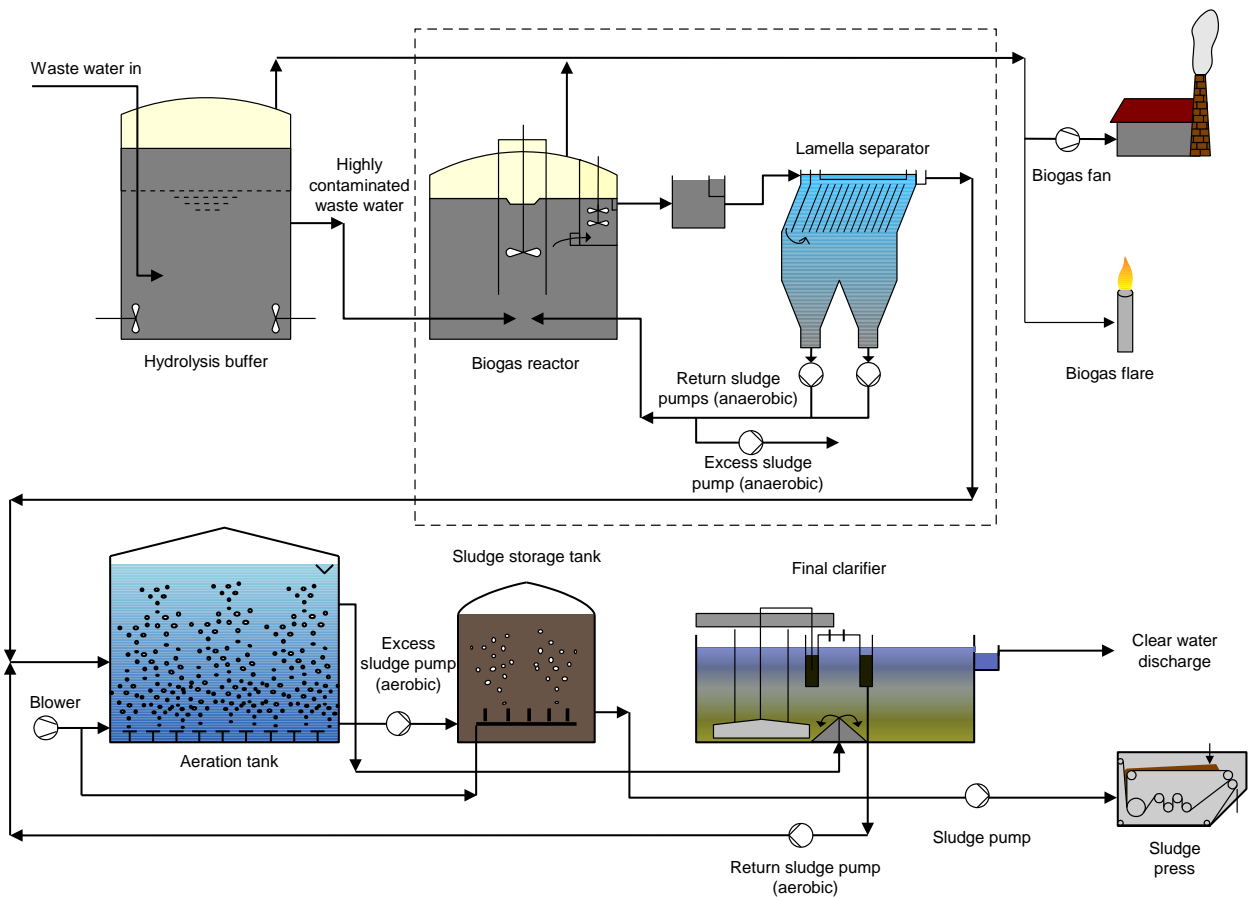
Furthermore the new plants improve environmental performance.

The decisive factor for placing the orders with BAMAG has been the proposed process engineering for reactor fluidization.



Bamag is an international EPC contractor for water and wastewater treatment plants as well as thermal processes. We design, supply and operate your plant.
We are...

... the experts



1. Plant

The homogenized and acidulated wastewater is fed to the biogas reactor at the appropriate process temperature and controlled flow rate. Following decomposition of organic matter, the wastewater passes through a degassing zone prior to being routed to an external sludge separation system. The major part of the sludge is returned by a pumping station as contact sludge. Biogas generated in the treatment process is compressed and delivered to the boilerhouse.

- Advantageous modular and package construction
- Ease of upscaling
- Very short construction time

3a. Technical data

Capacity	125 m ³ /h
COD	27,000 kg/d
BOD ₅	9,000 kg/d
Biogas output	360 m ³ /h

3b. Technical data

Capacity	85 m ³ /h
COD	18,000 kg/d
BOD ₅	6,000 kg/d
Biogas output	150 m ³ /h

2. Features

- Anaerobic pretreatment process focusing on COD and BOD₅
- Designed with process engineering and biological reserve capacity
- Very high process stability due to high buffer capacity resulting from volume and providing large tolerance for variations in pollutant, pH and temperature
- Economical buffering of biogas by use of low process pressures and constant pressure control