



BONDUELLE: BIOGAS UTILIZATION

Food & Beverage



100 % Biogas Energy Recovery.
Using sludge-sourced biogas to produce steam.

| The challenge

When new regulations required Bonduelle to build a wastewater treatment plant for its food processing factory in Békéscsaba, Hungary, the company turned to Veolia, whose specialists suggested a solution using sludge-sourced biogas to produce steam.

As Veolia exploits the biogas successfully in Nagykőrös, Bonduelle decided to use biogas also in Békéscsaba:

- Recover available biogas produced by a wastewater treatment plant with UASB technology,
- Improve energy efficiency,
- Optimize energy costs which challenges solve the inventions using biogas.

| Veolia's solution

- Renovation of the energy plant: 2 boilers in Békéscsaba,
- Adaptation of one of existing boilers for the combustion of biogas,
- Biogas parameters:
 - Pressure: 23-27 Mbar
 - Temperature: 35°C
- Production of steam at 180°C, 10 bar,
- Flexibility to adapt to seasonal nature of production.



Békéscsaba, HUNGARY



Contract Facts:

Duration: 16 years
 until the end of 2021
 Type: O&M

100 %
 biogas energy
 recovery

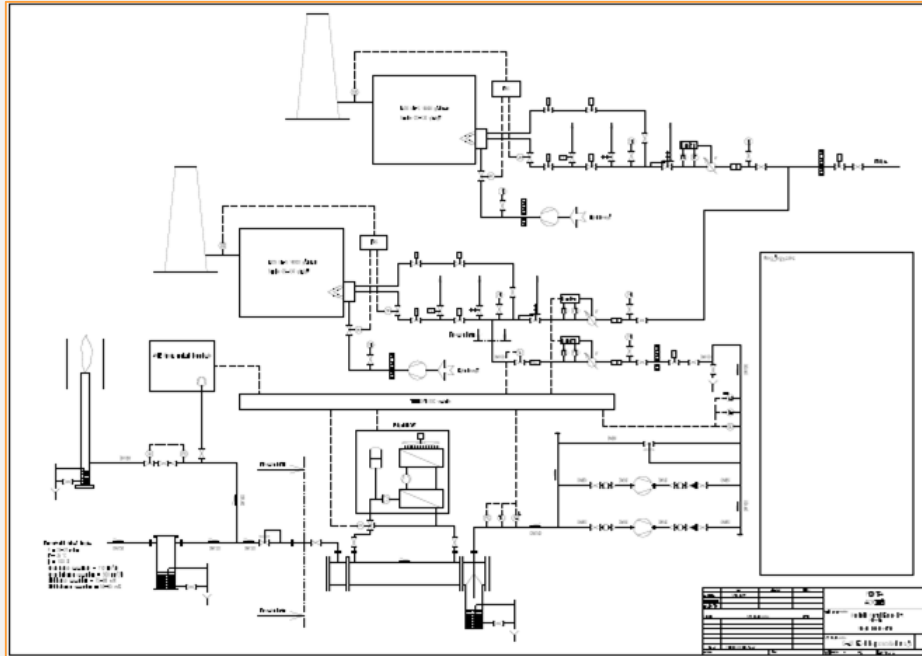
16-year
 contract

a.v. 16 %
 reduction in energy costs



| The benefits

- Greener steam supply
- Average 16% reduction in energy costs (€100k/year)
- Biogas is cheaper by 20% than natural gas
- Continuous and secure supply of steam



PLANET

The use of biogas reduces carbon footprint.
This technology increases energy efficiency.
The application of ISO 14001 standards contributes to the compliance of environmental laws.