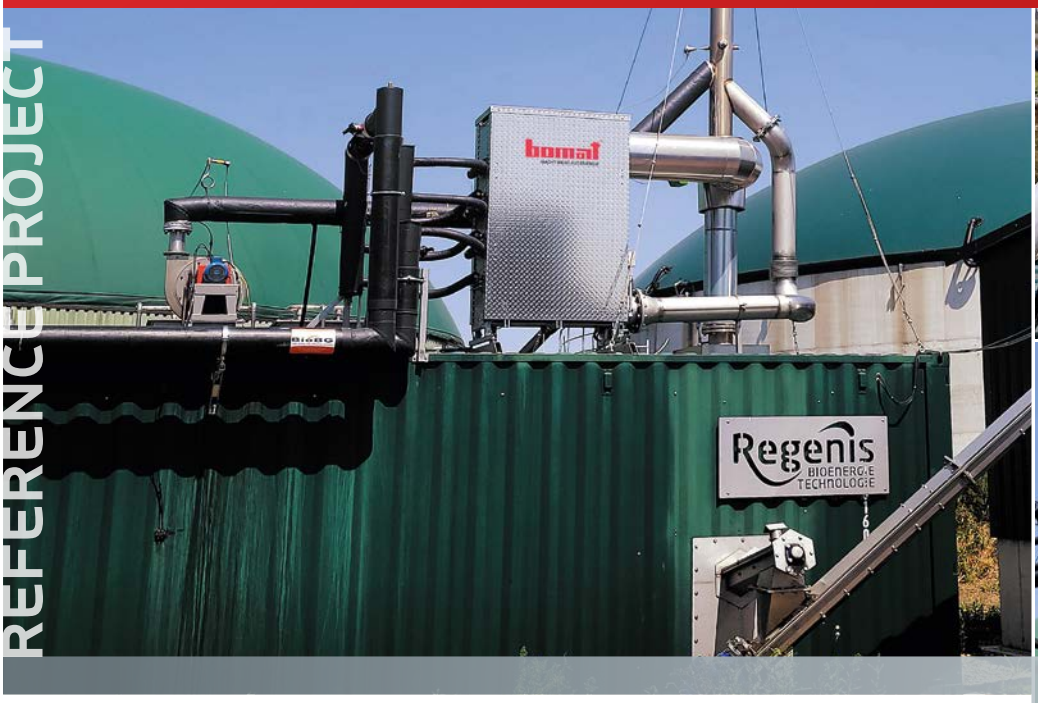
BIOGAS/SEWER GAS

EXHAUST GAS HEAT RECOVERY IN A BIOGAS CHP UNIT

REFERENCE PROJECT



POHLMANN BIOENERGIE GMBH

Mühlenort 2, 49599 Voltlage

The BOMAT 03-KK-1064-MT-4-9-6 condensing exhaust gas heat exchanger from the modular Profitherm series utilises the process exhaust air from an exhaust gas-driven fermentation residue drying plant. The heat recovered is supplied to the heating network on the water side via the district heating return to raise the return temperature.

Heat source:	Schnell BHKW ZS250-V5 (DC13) 265 kW el.
Fuel:	○ Fuel oil ○ Natural gas ○ Sewer gas ● Biogas
Exhaust gas heat exchanger:	03-KK-1064-MT-4-9-6 (year of manufacture: 2022)
Exhaust gas temperature:	approx. 240°C (upstream of HE) ➔ approx. 70°C (downstream of HE)
Coolant temperature:	approx. 60°C (upstream of HE) ➔ approx. 66°C (downstream of HE)
Heat recovery per year:	approx. 220,000 kWh
CO_2 reduction per year:	approx. 44,000 kg
Plant construction:	BioBG GmbH, Webers Flach 1, 26655 Ocholt

➔ Estimated payback period **approx. 3–4 YEARS.**

BioBG
Mehr Erfolg mit effizienter Energie

MADE IN GERMANY

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