Freudenstadt biodegradable waste treatment plant

Client:
Bioenergie Freudenstadt, Freudenstadt

Treatment since 2011

Facts and figures:
• Installation in the Sulzhau commercial park
• Processing approx. 18,000 metric tons of biodegradable waste
• Dry fermentation in a horizontal digester
• Generation of 1.9 million m$^3$/a biogas, biogas purification with activated carbon adsorption
• Delivery to the company’s CHP centers via a 1.5-km gas line
• Local generation of approx. 4 million kWh/a of electricity and 5 million kWh/a of heat
• Fermentation residues utilized as compost and liquid fertilizer
• Approx. 5,000-m$^3$ warehouse for liquid fermentation residue

Planning for a biodegradable waste treatment plant in the Sulzhau commercial park

Rytec services: Concept, planning, change approvals, public tender and construction management, commissioning, health and safety coordinator

Facts:
• Annual capacity of approx 18,000 metric tons of separated biodegradable waste
• Thermophilic dry fermentation in a horizontal digester, Strabag system
• Post-decomposting system for dewatered fermentation residues
• Utilization of the generated biogas in a CHP of the Freudenstadt local utilities for the Freudenstadt district hospital
• The heat utilization concept with full utilization of waste heat
• Substituting for fossil fuels
• Increased expenses for exhaust air treatment because of the location in the commercial park within a special neighborhood