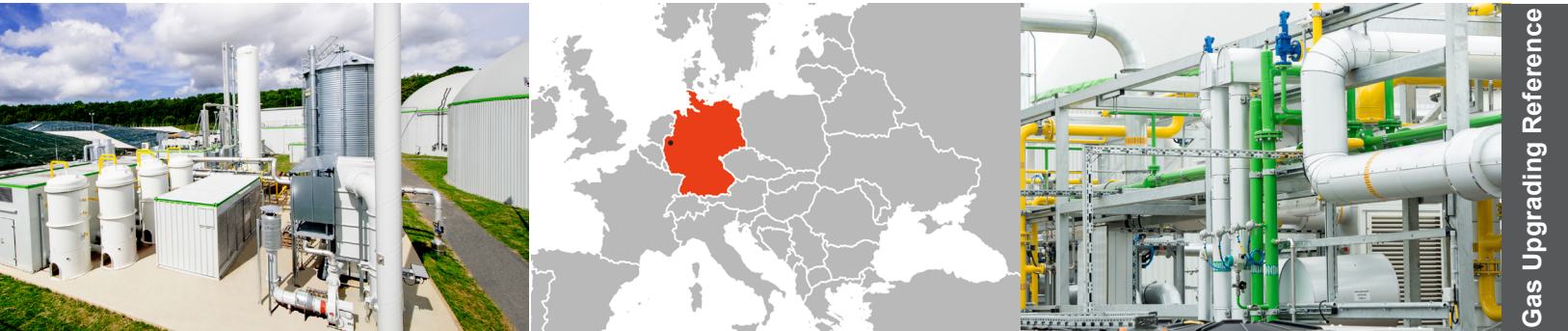


Biogas Upgrading Plant - Menteroda

BGAA1500 / Agricultural / Natural Gas Grid Injection



Biogas upgrading using Carbotech Pressure Swing Adsorption (PSA)

Project data

Customer:	Bilfinger Project Investments, Wiesbaden
Location:	Menteroda, Germany
Commissioning:	2014
Utilization:	Injection into the natural gas grid

Input material

Agricultural products, (Biogas to BUP: 131°F, -15mbarg, saturated)

Plant data

Capacity:	1500 m³/h, 50% CH ₄
Product gas:	770 m³/h , 96% CH ₄
Efficiency:	>98,5% Methane yield
Spec. Energy requirement:	<0,19 kWh/m³ Biogas

Technology

Biogas pre-cooling
Biogas compression, 3 bar(g)
Biogas cooling, Removal of H ₂ S
Methane enrichment in PSA
Tailgas combustion system, RTO