

Biogas Upgrading Plant - Boerger

BGAA750 / Slaughterhouse Waste / Natural Gas Grid Injection



Gas Upgrading Reference

Biogas upgrading using Carbotech Pressure Swing Adsorption (PSA)

Project data

Customer:	EWE ERNEUERBARE ENERGIEN GmbH, Oldenburg
Location:	Boerger, Germany
Commissioning:	2011
Utilization:	Injection into the natural L-gas grid

Input material

Slaughterhouse waste and manure (Biogas to BUP: 77°F, 80mbarg, saturated)

Plant data

Biogas capacity:	750 m³/h, 62% CH ₄
Product gas:	485 m³/h, 94% CH ₄
Efficiency:	>98% Methane yield
Spec. Energy requirement:	<0,20 kWh/m³ Biogas

Technology

Biogas compression, 6 bar(g)
Biogas cooling, Removal of H ₂ S
Methane enrichment in PSA
Tailgas combustion system, EFLOX