

Biogas Upgrading Plant - Sofielund

BGAA2000 / Biowaste / Biofuel (CNG)



Gas Upgrading Reference

Biogas upgrading using Carbotech Pressure Swing Adsorption (PSA)

Project data

Customer:	Scandinavian Biogas Sofielund AB, Stockholm
Location:	Sofielund, Sweden
Commissioning:	2015
Utilization:	Biofuel (CNG)

Input material

Biowaste, chip fat (Biogas to BUP: 86°F, 5mbarg, saturated)

Pant data

Biogas capacity:	2000 m³/h, 64% CH ₄
Product gas:	1315 m³/h , 96% CH ₄
Efficiency:	>98,5% methane yield
Spec. Energy requirement:	<0,22 kWh/m³ Biogas

Technology

Biogas pre-cooling
Biogas compression, 8 bar(g)
Biogas cooling, Removal of H ₂ S, VOC and Siloxanes
Methane enrichment in PSA
Product gas cooling
Tailgas combustion system, EFLOX