

# Biogas Upgrading Plant - Hendriksdal

BGAA3000 / Sewage Gas / Biofuel (CNG)



Gas Upgrading Reference

## Biogas upgrading using Carbotech Pressure Swing Adsorption (PSA)

### Project data

Customer:	Stockholm Vatten, Stockholm
Location:	Stockholm, Sweden
Commissioning:	2015
Utilization:	Biofuel (CNG)

### Input material

Sewage gas from WWTP Stockholm (Biogas to BUP: 86°F, 25mbarg, saturated)

### Plant data

Biogas capacity:	3000 m³/h, 61% CH <sub>4</sub>
Product gas:	1860 m³/h, 97% CH <sub>4</sub>
Efficiency:	>99% methane yield
Spec. energy requirement:	<0,22 kWh/m³ Biogas

### Technology

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