

Biogas upgrading plant Boerger

BGAA750/ Slaughterhouse waste/ Natural gas grid injection



Biogas upgrading using pressure swing adsorption (PSA)

■ Project data:

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

■ Input material:

Slaughterhouse waste and manure (Biogas to BUP: 25°C, 80mbarg, saturated)

■ Plant data:

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|---------------------------|--|
| Biogas capacity: | 750 m ³ /h, 62% CH ₄ |
| Product gas: | 485 m ³ /h, 94% CH ₄ |
| Efficiency: | >98% Methane yield |
| Spec. Energy requirement: | <0,20 kWh/m ³ Biogas |

■ Technology:

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