

Hohenhameln / Germany

Biogas Plant: EUCO® Titan 7500G, 7.5 MW_{GAS}



Biogas plant with gas upgrading unit for gas grid injection

Project Data

Owner and investor	AC Biogasanlage Hohenhameln GmbH, Germany	
Plant engineering	HZI Schmack GmbH, Schwandorf, Germany	
Location	Am Windpark, 31249 Mehrum, Germany	
Start of operation	Summer 2012	
Energy Balance		
Feed-in capacity/a	Approx. 60 million kWh/a; potential electric power requirement for approx. 5,500 households* as well as heat supply for approx. 1,400 households* *3-person household with 120 m² living area incl. hot water generation	
Energy efficiency	High energy efficiency (approx. 92%) through the utilisation of heat and electricity all year round	
Feed-in gas grid	E.ON Avacon	
Input Material		
Substrate mix from	Maize silage, whole crop silage, grass silage, dry chicken manure, sugar beet	

Plant Data

Traine Data		
Quantity	Plant component	Dimension / Capacity
1	Silage clamp	approx. 10,000 m²
2	PASCO feeding system (with liquid feeding)	80 m³ each
1	CALIX reception pit (2 chambers)	200 m³
1	EUCO® DTS high performance fermenter	2 x 1,000 m³
3	COCCUS® TSS post fermenter	4,000 m³ each
1	Gas upgrading unit	1,300 Nm³/h biogas
2	SULA GSI final storage basin	5,500 m³ each
2	SULA GSH final storage basin	5,500 m³ each
1	Separator and liquid slurry tank	50 m³
1	CHP (Pro2)	600 kW _{el}
1	Gas-burner for inertgas (e-flox)	
1	Technical building EUCO®	
1	Weight bridge, technical hall with gas station (own consumption)	