

## Stoke Bardolph / UK

### Biogas Plant: EU<sup>CO</sup>® Titan 2000, 2 MW<sub>el</sub>



Plant to feed into the electrical grid

#### Project Data

Owner and investor	Severn Trent Water Ltd., England
Plant engineering	HZI Schmack GmbH, Schwandorf, Germany
Location	Stoke Lane, Stoke Bardolph, Nottingham NG14 5HL, UK
Start of operation	Autumn 2010

#### Energy Balance

Feed-in capacity/a	Approx. 16 million kWh/a electric and 18 million kWh/a thermal output; potential electric power requirement for approx. 4,100 households* as well as heat supply for approx. 1,000 households* *3-person household with 120 m <sup>2</sup> living area incl. hot water generation
Energy efficiency	High energy efficiency (approx. 85% efficiency) through the utilisation of heat and electricity all year round

#### Input Material

Substrate mix from	Maize silage, whole crop silage
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#### Plant Data

Quantity	Plant component	Dimension / Capacity
2	Feeding system	80 m <sup>3</sup> each
1	CALIX reception pit	200 m <sup>3</sup>
2	EU <sup>CO</sup> ® DTS high performance fermenter	2 x 600 m <sup>3</sup>
2	COCCUS® TSS post fermenter	4,000 m <sup>3</sup> each
2	CHP (Jenbacher)	1,065 kW <sub>el</sub> each
1	SULA GSC final storage basin	2,700 m <sup>3</sup>
1	Separator and liquid slurry tank	
4	Technical building	