

## Denkendorf / Germany

### Biogas Plant: COCCUS<sup>®</sup> Farm, 365 kW<sub>el</sub>



#### Agricultural biogas plant to feed into the electrical grid

##### Project Data

Owner and investor	Biogas Riedelshof GmbH, Germany
Plant engineering	HZI Schmack GmbH, Schwandorf, Germany
Location	Riedelshof, 85095 Denkendorf, Germany
Start of operation	December 2011

##### Energy Balance

Feed-in capacity/a	Approx. 3 million kWh <sub>el</sub> /a and 3.3 million kWh <sub>th</sub> /a output; potential electric power requirement for approx. 760 households* and heat supply for approx. 190 households* *3-person household with 120 m <sup>2</sup> living area incl. hot water generation
Energy efficiency	Approx. 80% energy efficiency through the utilization of heat (for farm buildings, detached houses and for drying digestate residues) and of electricity all year round

##### Input material

Substrate mix from	31% maize silage, 23% whole plant silage, 20% chicken manure, 14% cow slurry, 4% ryegrass, 4% sugar beets and 4% forage rye
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##### Plant Data

Quantity	Plant component	Dimension / Capacity
1	PASCO feeding system	60 m <sup>3</sup>
1	CALIX reception pit	400 m <sup>3</sup>
1	COCCUS <sup>®</sup> digester	2,700 m <sup>3</sup>
1	SULA final storage basin	4,000 m <sup>3</sup>
1	All-in-one technical module (with CHP)	365 kW <sub>el</sub>