



Dry Anaerobic Digestion Plant Fife

BIOFerm Dry AD plant; 1.6 MW_{el}

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Biogas plant to feed into the electrical grid and the local district heating network.

■ Project data:

Owner and operator:	Council of Fife, Schottland	
Plant engineering:	JV Lochhead Energy; Schmack Biogas GmbH (subcontractor)	
Location:	Fife, Scotland	
Start of operation:	July 2013	

■ Energy balance:

Feed-in:	district heating network and electricity (feed-in the grid) all year round. Electrical grid and local district heating network.	
Energy efficiency:	High energy efficiency through the utilisation of heat in the local	
	*3-person household in Germany with 120m² living area incl. hot water generation.	
	output; potential electric power requirement for approx. 3.300* households* as well as heat supply for approx. 800 households*.	
Feed-in capacity/a:	Approx. 13 million kWh/a electric and 14 million kWh/a thermal	

Input material:

40,000 t organic waste (brown bin) and 3,000 t food waste per year

■ Plant data:

Quantity	Plant component	Dimension/Capacity
1	Delivery hall with material processing	950 m²
1	Food and kitchen waste delivery with material	
	processing and hygienization	4,000 t/a
1	Aeration basin	200 m ³
11	Digester	30 x 7 x 5 m each
1	Perkolate tank	1,600 m ³
8	Aeration area	35 x 7 m each
4	Hygienization tunnel	25 x 6.30 x 5 m each
1	Abluftanlage with Biofilter	100,000 m ³
2	CHP decentral (1 x 1 MW_{el} , 1 x 600 kW_{el})	610 kW _{el} total
1	Boiler with dual-fuel burner	400 kW _{th}
1	Control-/ administration building	350 m ²