

## Biogas Plant BAESWEILER



Location:	Baesweiler, Germany
Construction Period:	2006
Input:	Corn silage, wheat silage
Fermenter:	Concrete tank, 2,155 m <sup>3</sup>
Co-generator:	Gas engine, 536 kW
Special Features:	Gas holder above secondary digester, thermophilic operation, heat recovery
Costs:	about 1,500,000 €

The Biogas plant BAESWEILER is owned and operated by the company "ADRW Naturpower GmbH & Co KG" on behalf of a co-operative of 99 farmers with Andeas Dering and Willi Kaulhausen as manager. The business idea is to produce biogas from one hand beginning from the cultivation of the plants to the commercialization of heat and electricity. It took six months to construct the biogas plant. It was started up in the autumn of 2006.

The feedstock is temporarily stored in a silage bunker with a capacity of 40 m<sup>3</sup> and fed to the digester with a piston pump. The complete solid input device is located in a hall to avoid odour and noise emissions.

The thermophilic digester is heated by an external heat exchanger. The excess heat produced by the CHP is used by an indoor swimming pool located close to the facility.

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Responsibility of Krieg & Fischer Ingenieure GmbH:

Conception, Preplanning, Permission, Detailed Final Construction Plans, Tenders, Supervision of Construction, Start-up