



BIOGAS PLANT MALCHIN

CLIENT

Agratec AG

FINAL CUSTOMER

EDIS Natur

LOCATION

Malchin/Germany

START-UP

2007 (1st construction phase) /

2008 (2nd construction phase)

PROJECT

Energy crops based biogas plant as dry digestion

INPUT

Approx. 56 000 t/a as maize silage, grass silage and grain

CAPACITY

Approx. 3.2 MW_{electr.} (4.8 MW electr. installed)

PROCESS

Dry digestion with LARAN® plug flow reactor

INSTALLED FACILITIES

- Closed reception area with mechanised/automated reception and dosing buffer for silage
- Grain silo and mill
- Mixing and dosing buffer with reactor feeding
- 2 pcs. LARAN® plug flow reactor TF 2200
- 2 pcs. post fermentation reactors with double-membrane gasholder
- Mechanical separation with closed intermediate storage area of dewatered solids
- Biogas system with biogas cleaning, emergency flare and 4 pcs. CHP units
- Waste air capture and treatment (biofilter)

SCOPE OF WORK

Authority engineering; concept design and engineering of the whole plant, delivery and installation of dry digestion reactors

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