



PowerCrop - Russi

Akuo Energy - CBN

JG Pears - Newark

Tilbury Green Power

Østkraft

ENGIE Cofely - Biolacq Energies

ENGIE Cofely - BES VSG

ENGIE Cofely - SODC Orléans

Roths CoRDe

Zignago Power

ENGIE Cofely - BCN

Verdo Production - Randers

Western Wood Energy Plant

FunderMax - Neudörfel

Linz-Mitte

Boehringer Ingelheim

Best Wood Schneider

Swiss Krono - Heiligengrabe

Pfleiderer - Gütersloh

EPR - Glanford

Pfleiderer - Neumarkt

Egger - Pannovoges

Aalborg Energie Teknik a/s (AET) Biomass Cogeneration Plant:

Pfleiderer, Gütersloh, Germany

The Gütersloh plant is a biomass cogeneration plant built for and operated by the chipboard manufacturing group, Pfleiderer AG.

The boiler plant was the third plant delivered to Pfleiderer AG and was mentioned as Best Available Technology (BAT) in the IPPC report "Large Combustion Plants" published by the EU in 2006:

- | Read an extract of the report [Large Combustion Plants](#) (285 kb pdf)
- | Download the full [IPPC-report](#) (22 Mb pdf).

The cogeneration plant annually burns approx. 120,000 tonnes of contaminated wood, wood waste, demolition wood, saw and sander dust.

The biomass-fired boiler plant was commissioned in 2000.

Very High Availability

The plant was designed to have a very high availability as the chipboard plant typically operates 360 days per year.

From 2012 to 2015, the CHP plant has operated between 8,350 hours and 8,520 hours per year (latest figures known).

After three successful projects, there is a continued, close cooperation between Pfleiderer AG and AET. This cooperation covers optimisation of performance as well as reduction of maintenance costs.

AET Scope of Supply

AET designed, engineered, supplied, erected and commissioned the following:

- | Fuel dosing system
- | Combustion system with spreader stoker and travelling grate
- | AET Dust Firing System
- | [AET Biomass Boiler](#) incl. superheater and economiser
- | AET Combustion Air System
- | SNCR DeNOx plant
- | Ash handling system
- | Flue gas cleaning system and bag filter
- | Stack
- | Electrical installations
- | Instrumentation
- | Piping and ducting
- | Insulation
- | Construction steel
- | Stairways and platforms
- | PLC control & SCADA system.

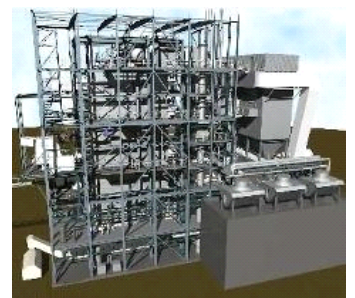
Additional Information

- | After 7 years of operation, general manager Hans Kurt von Weder comments on biomass logistics, cooperation with AET and AET Services: [Click here to watch the video - forward to 2:47](#)
- | The Pfleiderer Group supports the principle of sustainable forestry; only wood from sustainably managed and/or certified forests or recycled wood is used in the company's products. The company acts in accordance with ecological, social and economic standards. The Pfleiderer Group never uses wood from exhaustive harvesting or forest destruction: [Read more](#)

Boiler:	60 MW _{th}
	70 bara
	455 °C
Electrical power:	≤17 MW _e
Process energy:	≤6 MW _{th}



"Best Available Technology" (BAT) stated the IPPC report "Large Combustion Plants" (2006 published by the EU) about the Pfleiderer Gütersloh CHP plant.



A 3D view of this AET Co-Generation Plant commissioned in Gütersloh, Germany.

- | The very stringent emissions at Gütersloh are publicly available: [Read more](#)
- | To obtain more information about this biomass-fired plant and about AET: [Contact AET Sales](#).

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The Biolaq Energies project, in Lacq, is a biomass-fired CHP plant of 54 MW, that utilises forestry wood, and clean, uncontaminated residues from wood processing.

[Read more about Biolaq](#)



Tilbury Green Power is a 125 MW waste wood-fired plant, which commenced operations in 2017.

[Read more about Tilbury Green Power](#)



JG Pears – Newark is a 42 MW MBM-fired cogeneration plant, which commenced operations in 2018.

[Read more about JG Pears - Newark](#)



Akuo Energy - CBN is a 63 MW wood-fired cogeneration plant, which commenced operations in early 2019.

[Read more about Akuo Energy - CBN](#)

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Zignago Power s.r.l.—successfully producing Green Energy in Italy

The 49 MW Zignago Biomass power plant in Italy, owned and managed by Zignago Power s.r.l., belonging to the Marzotto family empire, has since its installation in 2013 been running with a very high availability (98.8%). The plant utilises wood residues and agricultural waste such as straw, miscanthus and maize. [>Read more](#)

