


[Solvay - Rheinberg](#)
[PowerCrop - Russi](#)
[Akuo Energy - CBN](#)
[JG Pears - Newark](#)
[Tilbury Green Power - London](#)
[Østkraft - Rønne](#)
[ENGIE - Biolacq Energies](#)
[ENGIE - BES VSG](#)
[ENGIE - SODC Orléans](#)
[Rothes CoRDe - Speyside](#)
[Zignago Power](#)
[ENGIE - BCN](#)
[Verdo Produktion - Randers](#)
[WWEP - Port Talbot](#)
[FunderMax - Neudörfel](#)
[Linz-Mitte](#)
[Boehringer Ingelheim](#)
[B.W. Schneider - Eberhardzell](#)
[Swiss Krono - Heiligengrabe](#)
[Pfleiderer - Gütersloh](#)
[EPR Glanford - Scunthorpe](#)
[Pfleiderer - Neumarkt](#)
[Egger - Pannovosges](#)

Aalborg Energie Teknik a/s Biomass Combined Heat and Power Plant

Best Wood Schneider, Eberhardzell, Germany

The Biopower plant is owned and operated by the German Sawmill Company, Best Wood Schneider GmbH.

A major benefit from building the biomass-fired combined heat and power (CHP) plant was eliminating the waste wood, dust and other excess biomass, produced daily at the sawmill and the factory for insulation (Dämmstoffe). The plant has an annual fuel input of 53,000 tonnes of uncontaminated wood, wood waste and demolition wood.

The plant was completed and commissioned in 2004 and supplied within 15 months.

Very High Plant Availability

In 2012, the whole CHP plant operated 8,472 hours, and thereby achieved an availability of approx. 97% (latest available figures).

Upgrade for Extra Energy Capacity

In 2010, Schneider invested in a factory producing insulation material based on wood fibre and this factory required additional steam and hot air on a 24/7 basis.

AET designed the concept for process integration and energy optimisation in order to be able to supply the extra energy required. The existing CHP plant was retrofitted with an extra backpressure steam turbine to supply 18 bar steam, additional extraction from existing turbines (at 1,6 bar), extraction of hot air from ACC and additional air heaters in the flue gas stream. The AET Biomass Boiler was at the same time upgraded from 27 MW_e to 30 MW_e.

AET performed the engineering for the full concept and retrofitted the existing CHP plant as well as upgrading of the PLC control system and SCADA.

As turnkey supplier, AET designed, supplied, constructed and commissioned the following scope:

- AET Fuel Dosing System
- [AET Combustion System](#) with AET Spreader Stoker and AET BioGrate
- [AET Biomass Boiler](#) with superheaters, economisers and flue gas air preheater
- AET Combustion Air System
- Feed water system
- Steam turbine generator set
- Air cooled condenser
- Air preheaters for hot process air
- Water treatment plant
- Ash handling system
- Bag filter
- Flue gas system and stack
- Piping and ducting
- Insulation
- Structural steel
- Platforms and stairs
- Electrical systems
- Instrumentation
- PLC control and SCADA system.

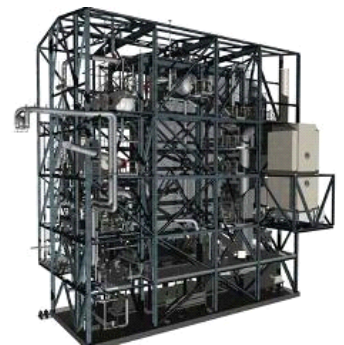
Additional Information

- Please also see Best Wood Schneider's homepage to see how much carbon

Boiler: 30 MW_{th}
67 bara
462 °C
Electrical power: ≤4 MW_e
Process energy: ≤23 MW_{th}



The Best Wood Schneider - Biopower cogeneration plant in Germany.



A 3D image of the AET Biomass Boiler.

dioxide there is within timber: [Read more](#)

- To obtain more information about this biomass-fired plant and about AET: [Contact AET Sales.](#)

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The Biolacq 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 ENGIE Cofely - Biolacq Energies](#)



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](#)



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