



PowerCrop - Russi

Akuo Energy - CBN

JG Pears - Newark

Tilbury Green Power

Østkraft

Cofely - Biolacq Energies

Cofely - BES VSG

Cofely - SODC Orleans

Roths CoRDe

Zignago Power

Cofely - BCN

Verdo Production - Randers

Western Wood Energy Plant

FunderMax - Neudörf

Linz-Mitte

Boehringer Ingelheim

Schneider - Biopower

Swiss Krono - Heiligengrabe

Pfleiderer - Neumarkt

Pfleiderer - Gütersloh

Egger - Pannovoges

EPR - Glanford

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

Swiss Krono Heiligengrabe, Germany

The Swiss Krono site contains a biomass-fired combined heat and power (CHP) plant that generates 20,000 kW of electricity and supplies the MDF and OSB manufacturer with heated thermal oil and supplies flue gas for the drying process.

Besides traditional wood chips, bark, sawmill residue etc. the plant has extensive experience of combustion using a wide range of A1 - A4 fuels:

- | MDF-granulate from chipboard manufacturing
- | Sander dust with very high N content
- | Composted wood with up to 25% ash/inert material
- | Fuel from external sources

The plant utilises 130,000 tons of waste wood annually.

High Availability

The CHP plant was delivered in 2003, and had an availability of 95% (8300 hours) in 2013.

AET Supply

AET carried out the design, engineering, supply, erection and commissioning of the fuel handling system, the boiler plant and the flue gas cleaning system on a turnkey basis. The systems supplied include:

- | Fuel storage and handling
- | Fuel dosing system
- | AET Dust firing system
- | [AET Combustion System](#) with AET Spreader Stoker and AET-Biograte
- | [AET Biomass boiler](#) with superheater and economiser and flue gas air preheater
- | AET Combustion air system
- | [AET SNCR DeNOx system](#)
- | Feed water system
- | Water treatment system
- | Ash handling system
- | Bag filter and lime injection system
- | Flue gas cleaning and stack
- | Piping and ducting
- | Engineering of turbine, ACC and turbine hall
- | Optimisation of heat balance
- | Electrical installations
- | Insulation
- | Boiler house steelstructure
- | Platforms and stairs
- | Instrumentation
- | PLC control and SCADA system for the whole plant

The biomass CHP station was handed over to the customer in 2003.

Additional Information

- | Kronoply, - a successful manufacturer of wood products. [Read more](#)

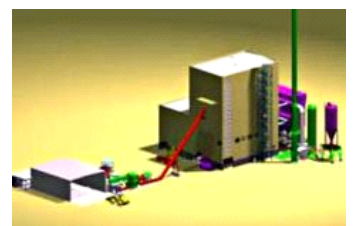
Questions? Need detailed information?

To obtain more information about this biomass plant and/or generally about AET:

Boiler:	64 MW _{fuel heat input}
	70 bara
	452°C
Electrical:	20 MW _e
Process energy:	10 MW _{process heat}



The Swiss Krono CHP plant produces 20MWe and 10 MW process heat.



A 3D view of the AET Biomass CHP Plant.

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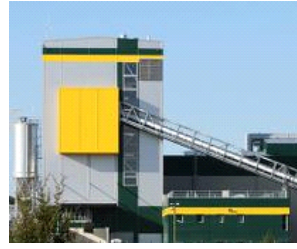
Rothes CoRDe Ltd is a biomass-fired cogeneration plant in Scotland fuelled by a whisky by-product and clean wood.

[Read more about Rothes CoRDe.](#)



The SODC Orléans cogeneration plant supplies district heating to 15,000 homes, equivalent to 27% of the city of Orléans.

[Read more about SODC Orléans](#)



In Landes, France, a 50 MW biomass-fired plant was successfully delivered to Cofely Engie (former GDF SUEZ) in May 2015.

[Read more about BES VSG.](#)



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 Biolacq](#)

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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](#)

