



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 - Neudörfel

Linz-Mitte

Boehringer Ingelheim

Schneider - Biopower

Swiss Krono - Heiligengrabe

Pfleiderer - Neumarkt

Pfleiderer - Gütersloh

Egger - Pannovoges

EPR - Glanford

Aalborg EnergieTechnik a/s Biomass CHP Plant, District Heating

Linz-Mitte Energie-Anlage, Austria

18% of all district heating for Linz, the third-largest city of Austria, is provided by a biomass-fired combined heat and power (CHP) plant.

The biomass plant was built and is owned and operated by Linz AG. AET supplied the CHP plant.

Biomass District Heating Reduces CO₂ Emissions

The use of renewable energy sources for district heating reduces emissions by approximately 50,000 CO₂ tons/year in the city of Linz. The biomass plant fulfils the requirement of Linz AG to supply green electricity and bio heating.

High CHP Plant Efficiency

The biomass plant also meets ecological and economic requirements with its high biomass fuel efficiency of 85 - 87%.

The combined heat and power plant has an annual fuel input of 70,000 tons of forest wood waste and other uncontaminated wood thereby ensuring that more than 18% of district heating to the city of Linz is supplied from biomass.

AET Turnkey Contractor

As turnkey contractor, Aalborg Energie Technik a/s supplied the complete CHP plant as a package with the following main systems:

- | AET Fuel feeding and dosing system
- | [AET Combustion System](#) with AET Spreader Stoker and AET-Biograte
- | [AET Biomass boiler](#) with superheater, economiser and flue gas air preheater
- | AET Combustion air system
- | Natural gas burner
- | Feed water system
- | Ash handling system
- | Bag filter
- | Stack
- | Steam turbine
- | Condenser (district heating)
- | Water treatment plant
- | Electrical systems
- | Piping and ducting
- | Insulation
- | Structural steel and boiler house
- | Platforms and stairs
- | Civil and building work
- | Instrumentation
- | PLC control and SCADA system.

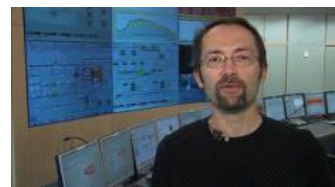
The biomass plant was completed and commissioned in 2005 and delivered 19.5 months later - 2 weeks ahead of schedule.

Additional Information

- | A presentation was given at Hot & Cool 2010 in Paris.
- | After 4 years of operation, technical engineer Hubert Pauli comments on biomass logistics, the fully automatic plant, AET project management and engineering, and the AET Combustion System. [Click here to watch the video.](#)

Questions? Need detailed information?

Boiler:	35 MW _{fuel heat input}
	67 bara
	462°C
Electrical:	9 MW _e
Process energy:	22 MW _{district heating}



Video from Linz Mitte CHP Plant. [Click Here.](#)

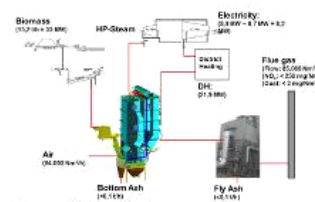


Linz-Mitte Energie Anlage in Austria - uses uncontaminated wood as fuel.



First Fire at Linz Mitte biomass-fired CHP plant.

Overall Process at The Linz Mitte CHP Plant



The overall process at the Linz Mitte Combined Heat and Power 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](#)

