



Biomass-Fired Plants

PowerCrop - Russi

Akuo Energy - CBN

JG Pears - Newark

Tilbury Green Power

Østkraft

Cofely - Biolacq Energies

Cofely - BES VSG

Cofely - SODC Orleans

Rothes 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 - Glanfond

Service and O&M

Aarhus Karlshamn

Kronoply

Western Wood Energy P. O&M

Aalborg Energie Teknik a/s (AET) Biomass Power Plant

PowerCrop-Russi, Ravenna, Italy

The 30 MWe biomass-fired power plant is situated in Russi, Ravenna.

The joint venture between the Italian company Termokimik Corporation (TKC) and AET will provide the equipment for a biomass-fired power plant, including an AET Biomass Boiler, to be erected in the city of Russi. The project is owned by PowerCrop Russi S.r.l., a company owned and operated by Enel Green Power and Seci Energia.

The AET Biomass Boiler is designed for a fuel heat input of 88 MWt and will generate live steam at 122 bara and 542°C. The AET Biomass Boiler will, at normal continuous rating, have a fuel heat input of 84 MWt, and the power plant will then produce 30 MWe (gross).

The annual power production corresponds to the consumption of around 84,000 households, and the biomass-fired power plant permits a reduction of carbon emission of 117,000 tonnes of CO₂/year.

A joint venture has been formed between TKC and AET in order to utilise both companies' strong competencies:

- | TKC is a highly regarded Italian engineering and contracting company with special expertise in power plants.
- | AET with its reputation for consistently delivering well-functioning biomass-fired plants, which has high availability and a very high efficiency.

The strict emission requirements of the project will be fulfilled using Best Available Technology, including [AET Combustion System](#), [AET Biomass Boiler](#), electrostatic precipitator (ESP), bag filter and NOx and CO catalysts. The plant is to be completed and commissioned in 2019.

AET DESIGNS, SUPPLIES, CONSTRUCTS AND COMMISSIONS THE FOLLOWING SCOPE:

- | Fuel feeding and AET Fuel Dosing System
- | [AET Combustion System](#) with AET Spreader Stoker and AET Biograte
- | [AET Biomass Boiler](#) with superheater and economisers
- | AET Overfire Air System
- | Oil/biogas combi-burner
- | Oil burner
- | Water and steam soot blowers
- | AET Steam Air Preheaters
- | Flue gas ducting
- | Ash handling systems
- | Engineering of piping
- | Instrumentation
- | Engineering of steel structure
- | Engineering of boiler control system
- | Supervision of erection and commissioning.

Questions? Need Detailed Information?

To obtain more information about this biomass plant and/or generally about Aalborg Energie Teknik a/s: [Contact AET sales here](#)

Boiler: 84 MW_{fuel heat input}
122 bara
542°C

Electrical: Up to 30MW_e



Boiler and steel structure under erection.



Steel and platform work.



Erection of boiler section.



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](#)

