



PowerCrop - Russi

Akuo Energy - CBN

JG Pears - Newark

Tilbury Green Power - London

Østkraft - Rønne

ENGIE Cofely - Biolacq Energies

ENGIE Cofely - BES VSG

ENGIE Cofely - SODC Orléans

Roths CoRDe - Speyside

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 - Scunthorpe

Pfleiderer - Neumarkt

Egger - Pannovosges

Aalborg Energie Teknik a/s Biomass Cogeneration Plant

ENGIE Cofely, BES VSG, France

DRT, a world leader in the development of resin and turpentine extracted from pine resin, receives steam from the Biomass Energy Solutions VSG (BES-VSG) plant.

The cogeneration plant is owned by a special project vehicle (SPV), which was created by DRT, ENGIE Cofely and Caisse des Dépôts. These partners have financed, built and now operates the cogeneration plant for a minimum of 20 years, utilising local biomass.

The plant produces 97 GWh of electricity/year and 214 GWh of steam/year without using fossil fuels. This reduces CO₂ emissions by 20,000 tonnes/year as the plant efficiency will be more than 60%.

The biomass-fired cogeneration plant has an annual fuel input of 150,000 tonnes of forestry wood, and uncontaminated residues from wood processing and DerTal. DerTal is a tall-oil and by-product from DRT.

Performance test

The performance of the boiler was successfully tested by Bureau Veritas in 2015:

- | Boiler efficiency: 93.3%
- | In-house power consumption: only 1.6% of fuel heat input.
- | Emissions well within stringent, French standards.

The plant was completed and commissioned in 2015.

AET designed, supplied, constructed and commissioned the following scope:

- | AET Fuel Dosing System
- | [AET Combustion System](#) with AET Spreader Stoker and AET Biograte
- | Oil burner (Dertal)
- | [AET Biomass Boiler](#) with superheaters and economisers
- | AET Combustion Air System
- | [AET SNCR DeNOx System](#)
- | AET Steam Air Preheaters
- | Bag filter with lime injection system
- | Flue gas system and stack
- | Ash handling system
- | Air compressor system
- | Waste water treatment
- | Piping and ducting
- | Insulation
- | Structural steel for boiler house and cladding
- | Platforms and stairs
- | Instrumentation
- | PLC control system.

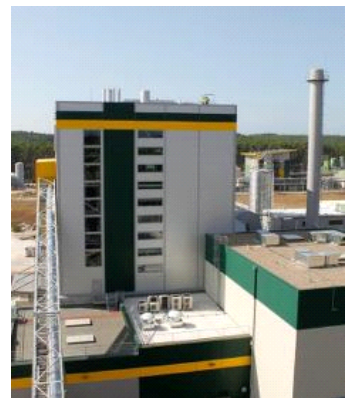
Additional Information

- | Biomass has become a rapidly increasing energy source for ENGIE COFELY, which has seen an increase in the number of projects using biomass, including the BES VSG project: [Read more](#)
- | An article in Bioénergie International was published in Nov-Dec 2014: "A biomass boiler of 50MW from Aalborg Energie Teknik delivered to DRT": [Read more](#)
- | To obtain more information about this biomass-fired plant and about AET: [Contact AET sales.](#)

Boiler:	50MW _{th}
	120 bara
	525 °C
Electrical power:	≤17 MW _e
Process energy:	≤25 MW _{th}



The BES VSG boiler plant.



BES VSG plant.



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](#)

