



Solvay - Rheinberg

PowerCrop - Russi

Akuo Energy - CBN

JG Pears - Newark

Tilbury Green Power

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 Boiler Plant

ENGIE Cofely, BCN, Grand Couronne, France

Bio Cogelyo Normandie (BCN) is a biomass-fired cogeneration plant with an annual fuel input of 165,000 tonnes of forestry wood and uncontaminated residues from wood processing.

Biomass has become a rapidly increasing energy source for ENGIE Cofely, which has seen an increase in the number of projects using biomass. Most of the projects are based on wood but also on the use of energy crops and cereal waste.

Performance Test

The AET Biomass Boiler was successfully commissioned and handed over at the end of 2011. The official performance test carried out by Bureau Veritas (APR 2013) showed the following performances:

- Boiler efficiency at an impressive: 93%
- In-house power consumption: <1.6% of fuel heat input
- Emissions below European standards. All measured performances were better than the guaranteed performances by a good margin.

An interesting article has been published in Bioenergy Insight (DEC 2012): "Pedalling towards CHP goals", which explains the environmental impact of the project, environmental regulations in France and project performance.

AET Received Award

As a result of the order from ENGIE Cofely for the BCN project in Normandy and the focus on the French market, AET was awarded the French-Danish Trade Union Export Prize 2010.

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

- AET Fuel Dosing System
- [AET Combustion System](#) with AET Spreader Stoker and AET Biograte
- Oil burner
- [AET Biomass Boiler](#) with superheaters and economisers
- [AET SNCR DeNOx System](#) (installed in 2014)
- AET Combustion Air System
- AET Air Steam Preheaters
- Bag filter
- Flue gas system and stack
- Ash handling system
- Piping and ducting
- Insulation
- Structural steel for boiler house and cladding
- Platforms and stairs
- Instrumentation
- PLC control system.

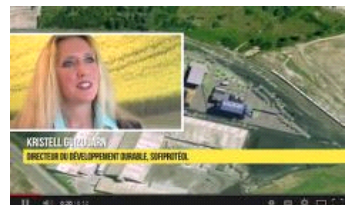
Additional Information

- An interesting article has been published in Bioenergy Insight (DEC 2012): "Pedalling towards CHP goals", which explains the environmental impact of the project, regulations in France and project performance: [Read more](#)
- As a result of the order from Cofely Services for the BCN project in Normandy and the focus on the French market, AET was awarded the French-Danish Trade Union Export Prize 2010 (18.01.2011): [Read more](#)

Boiler: 55 MW_{th}
92 bara
512 °C
Electrical power: ≤9 MW_e
Process energy: ≤36 MW_{th}



[Video](#) regarding the biomass-fired cogeneration facility for supplying steam to the Saipol plant in Grand-Couronne.



[Video](#) from the construction of the BCN plant.



The biomass-fired CHP plant at BCN has an impressive boiler efficiency.



Emissions presented by ENGIE Cofely and AET at PowerGen 2012.

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

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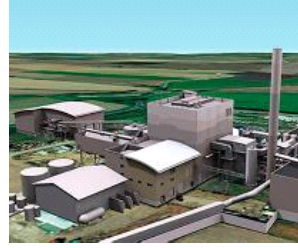
The Biolacq Energies project, in Lacq, is a biomass-fired CHP plant of 54 MW, that utilises forestry wood, and clean, uncontaminated residues from wood processing.

[Read more about Biolacq](#)



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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