


[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](#)
[WWEF - 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 Cogeneration Plant

ENGIE Cofely, Biolacq Energies, France

The Biolacq Energies project is a biomass-fired Cogeneration plant with an annual fuel consumption of 160,000 tonnes.

Biolacq Energies, which is a subsidiary of ENGIE Cofely, supplies steam to SOBEGI at the INDUSLACQ Industrial Park, a Seveco site.

The AET Biomass Boiler supplies steam to a high pressure turbine, which sends medium pressure steam to SOBEGI, as well as low pressure steam to an air cooled condenser.

The AET Biomass Boiler combusts forestry wood and uncontaminated residues from wood processing.

The use of wood energy prevents the release of 86,000 tonnes of CO₂/year for the next 20 years. It produces 89 GWh of green electricity per year, which is equal to the power consumption of 13,000 homes.

Performance test

The performance of the AET Biomass Boiler was successfully tested by Bureau Veritas in 2015:

- Boiler efficiency: 93.5%
- In-house power consumption: only 0.7% of the fuel heat input (359 kW)
- Emissions well within the stringent French standards.

The plant was completed and commissioned in 2016.

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
- AET Biomass Boiler with superheaters and economisers
- AET Combustion Air 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.

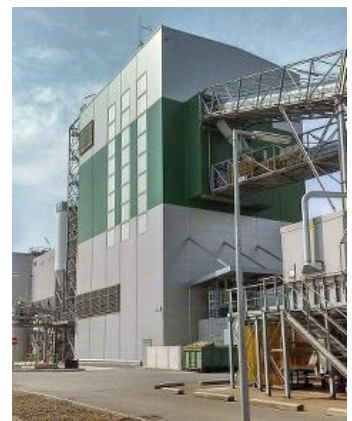
Additional Information

- Biomass has become a rapidly increasing energy source for COFELY, which has seen an increase in the number of projects using biomass, including Biolacq Energies: [Read more](#)
- To obtain more information about this biomass-fired plant and about AET: [Contact AET sales.](#)

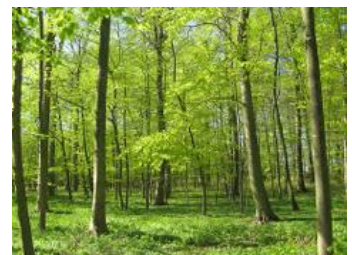
Boiler: 54 MW_{th}
120 bara
525 °C
Electrical power: ≤12 MW_e
Process energy: ≤38 MW_{th}



The AET Biomass Boiler at Biolacq Energies in France.



The Biolacq CHP plant was commissioned in 2016.



The wood comes from uncontaminated residues from the processing of wood.



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](#)

