



Consultancy Services

AET can perform consultancy tasks, such as finding solutions for optimising the availability and efficiency of CHP plants or power plants, or providing advice concerning best available technology needed prior to construction of power and HP Plants.

Operating Review

Through an operational analysis a review of an existing facility is carried out in order to uncover opportunities for improvement in areas such as efficiency, emissions, availability, consumption and performance.

Scope:

- Site visit
- Collection of operating data
- Perform measurements if necessary
- Operating analysis
- Review report
- List of possible improvements

Feasibility Study

A feasibility report illustrates the costs and financial benefits of a possible investment in improved performance, a comparison between different solutions or for a required performance improvement (i.e. for emissions). Such a report can also deal with a change in operating conditions, such as a change of fuel, change in load, change in division between electricity and steam/heat production. Feasibility studies are an important tool for selecting and justifying an investment.

Scope:

- Feasibility examination
- Performance calculations
- Estimation of investment cost
- Estimation of operating cost
- Feasibility report
- Business case

Inspections

Inspections are mandatory and necessary to uphold performance, respect emission limits and repair after corrosion and wear and tear and fouling.



Prior to investing in a project, AET can assist with feasibility studies. The *Heliuss CoRDe CHP plant* in Scotland is a good example, where AET was involved in the whole process right from the beginning. The plant uses residues from whiskey production as fuel, which required special developed solutions.



AET can perform reviews of existing facilities and suggest improvements

Scope:

- Thorough inspections on site
- Measurements of e.g. wall thickness
- Inspection report
- Directions for maintenance work to minimise downtime
- Recommendations for future repairs and replacements
- Long-term maintenance planning

Design and Calculation

Heat Balance Calculations:

- Boilers
- Combined Heat and Power Plants
- Power Plants

Thermal Calculations:

- Boilers
- Heat Exchangers
- Turbines
- Cycle

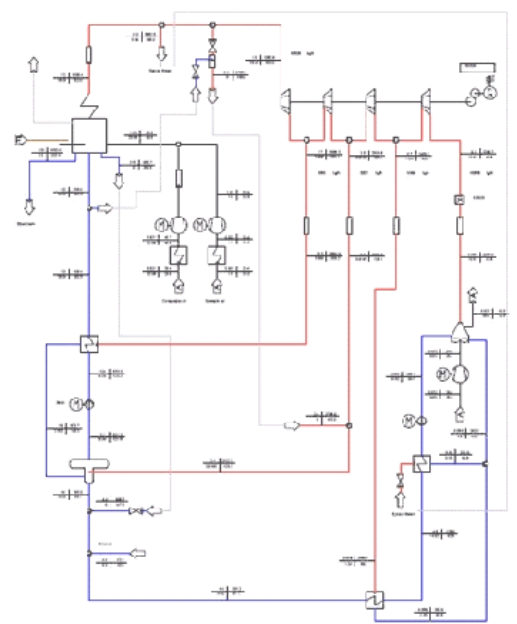
Strength Calculations:

- Boilers
- Piping

Water/Steam Circulation Calculations

Questions? Need more detailed information?

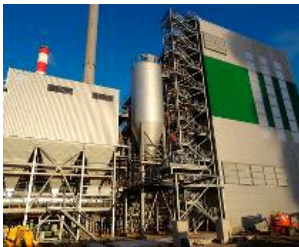
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Heat Balance Calculations

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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](#)

