Plant Improvements, Rebuild & Upgrades

Aalborg Energi Technik a/s (AET) is a market leader within boiler efficiency, availability and reliability and has in-depth knowledge of how to increase the availability and efficiency of biomass-fired CHP or power plants.

Efficiency Increases

Efficiency gains can be obtained for an existing spreader stoker or travelling grate system utilising the in-house technology to replace parts from the plant with AET designed equipment and plant engineering.

AET offers a range of services that may increase efficiency, such as:

- Feasibility studies
- Engineering studies
- Combustion system optimisation
- AET dosing bin
- AET travelling grate
- AET combi spreader
- Optimisation of boiler/turbine cycle
- Change of other existing plant components

Availability Upgrade

The plants supplied by AET have the highest availability in the market and AET thus has significant in-house expertise for performing an examination of the existing plant and for determining the range of options to increase availability.

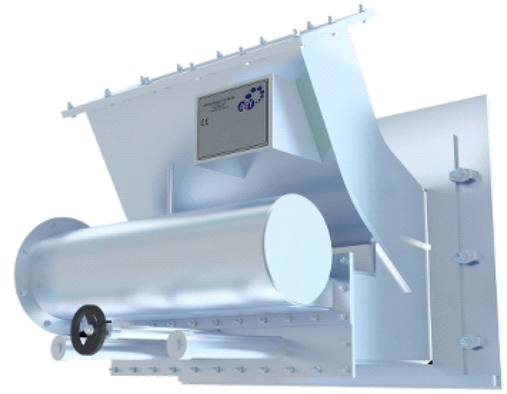
First, an availability examination is carried out, after which an availability report is prepared and a proposed plan of action is put forward, always focusing on value added for the customers.

Potential savings through improving efficiency and availability

AET Service Team is able to support you in improving efficiency and availability for biomass fired plants. Most often it is possible to calculate the possible gains by high efficiency and weigh this against the possible measures to be taken.
In the same way it is possible to estimate the gains by high availability and find the most process critical components in order to judge possible payback.
In both high efficiency and high availability the AET Service Team can assist you in e.g. inspections, boiler calculations, steam /water calculations, reporting, meetings.

Questions? Need detailed information?

Please get more information about this fossil fuel to biomass conversion: Contact our service department here



AET spreader stoker.

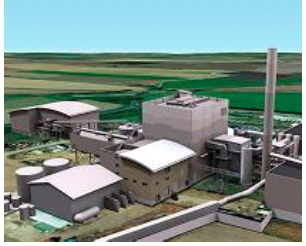
The combustion system is examined and improved.

AET monitors and analyses the plant and proposes possible improvements to be made

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, mischantus and maize. >Read more

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