

Biomass CHP Dinslaken

Reference Story ProcessOPT WA

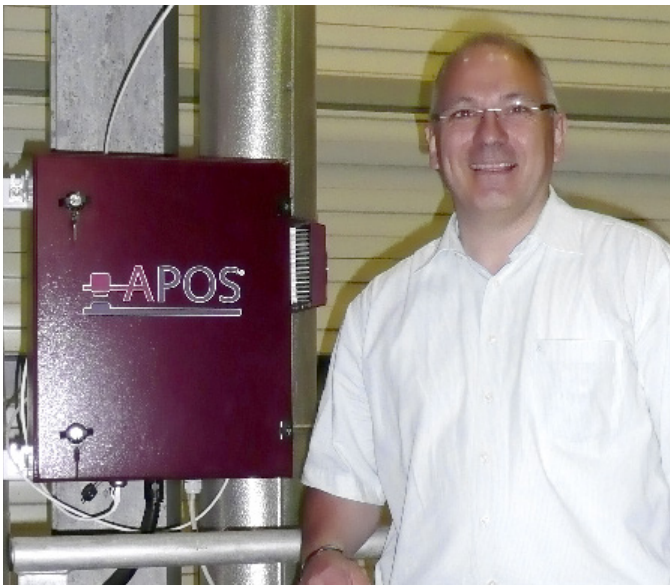


The municipality of Dinslaken operates several energy production facilities, including a biomass cogeneration plant with 12.4 MW firing power and electrical generation of approximately 2.5 MW. The plant feeds the heat generated into the local district heating system. Untreated fresh wood is used as fuel.

The ProcessOPT WA system is used for fuel monitoring, i.e. it allows a continuous online monitoring of the supplied fuel in order to measure and visualize calorific value, water and ash content. Plant management uses this real time information to ensure that a target ash content is not exceeded. If the value set by the plant operators is exceeded, the system automatically triggers a warning and the fuel mix can be changed to improve the average fuel quality and avoid ash/sand peaks.

The goal is to improve plant availability and to reduce maintenance costs. Through a more controlled preparation of the fuel mix and exact knowledge of the fuel properties, abrasion and aggressive slag can be reduced significantly and the heat transfer surfaces remain clean for longer period.

Positive side effect: the information on fuel quality can be shared with the fuel suppliers, who in turn can now sharpen their awareness of the fuel quality.



Arno Gedigk of Stadtwerke Dinslaken in the plant



APOS probe installed



„Finally we have clarity on what fuel we give into the boiler and can act accordingly and in real time, even together with our fuel suppliers! APOS had the System installed in just one and a half days and the values spontaneously matched our expectations! „

-Dipl.-Ing. Arno Gedigk