

Koehler Renewable Energy GmbH

ReceivingOPT BA-T - TÜV certification



Koehler Group is an energy-intensive company that has invested in internal energy supply activities for many years. Backed by experience as a paper manufacturer Koehler developed broad expertise in the area of power production that is nowadays used for both, internal and external purposes. Today, Koehler Renewable Energy ('KRE') operates power stations in all locations of paper production and supplies also customers in other locations with process steam and heat from own, KRE operated biomass power stations.

Business model of KRE is to supply customers with regenerative energy. Koehler currently manages and operates KRE-owned plants in Germany and the UK. Also, KRE offers its services to third party owners and operators of biomass combined heat and power plants ('CHP'). E.g. a new biomass CHP was set up and taken into operation in Elsfleth in December 2014: EBE - Elsflether Bioenergie GmbH, a biomass CHP fueled with virgin wood. Further biomass CHPs are also operated in Kehl, Goch and Wiesmoor which also deliver power and process steam or heat.

For the locations Goch and Elsfleth KRE has decided to use APOS ReceivingOPT BA-T systems for quality control of the biomass fuel delivered. The time intensive drying oven method to measure water content has been replaced and minerals content is measured with the APOS system in addition. Moreover, the sample sizes used could be increased significantly to achieve more representative samples. Since installation of the systems, the fuel deliveries are analyzed with the APOS system and the results are available even before the truck has left the plant premises. A fair and objective assessment of quality is now done transparently und instantaneously.

To increase the acceptance of the system among the suppliers, ReceivingOPT BA-T was tested by TÜV Nord in 2017 regarding the measurement accuracy. TÜV Nord, Hamburg, officially approved the high measurement accuracy and is available for inquiries on the testing methodology.



GBE - Gocher Bioenergie GmbH



EBE - Elsflether Bioenergie GmbH



Peter Sucher, Koehler Renewable Energy GmbH : "The TÜV check of the APOS system in Elsfleth confirms the system accuracy and thereby helps achieving additional acceptance. This plays an essential role regarding the long term use of the system and helps achieving the maximum amount of transparency regarding material quality judgement and billing."

Dr. Peter Nilges, APOS: „The APOS installation at EBE is a good example regarding instant quality control of the material delivery. Even difficult samples can be accurately analyzed and APOS' calibration achieves a high measuring accuracy and robustness at the same time."