



ADVANCED WEIGHERS AND WEIGHING SYSTEMS FOR STATIC, DYNAMIC AND CONTINUOUS WEIGHING



Case story

DONG
energy



DONG Energy, Herning

The Herning CHP plant, which is one of DONG Energy's power stations, made contact to Jesma to find a solution to measure the amount of wood pellets led into the boiler. Dong Energy was facing challenges controlling the process. As a consequence of faulty measured biomass, the amount of air blown into the boiler was not correct. This resulted in a lower utilization of the biomass as well as an enhanced risk of emission. The measuring system used did not live up to the quality requirements of DONG Energy, and it was decided to find an alternative solution. Through close cooperation between DONG Energy and Jesma a solution was found and tested during a period of several months. The solution was a Jesbelt A, which lived up to the requirements set up by DONG Energy. The test showed that the JesBelt A had no problems obtaining the accuracy required for the process.

DONG Energy found that the relationship between the biomass and the amount of air now was correct and resulted in an optimization of the exploitation of the biomass.

The test also showed that Jesma faced a challenge regarding the enclosure of the standard JesBelt A version 10. The JesBelt A was designed for process running in a vacuum. At DONG Energy the process runs with slight positive pressure.

The solution from Jesma was a JesBelt A in a dustproof version. This solution is now built into 4 lines at DONG Energy's Herning CHP plant.



The picture shows the dustproof weigh feeder from Jesma which continuously feeds up to 8 tons of wood pellets per hour.



RELIABLE ACCURACY



Operational Manager Jens Kristian Nielsen states:

The challenge we had was very important for us to resolve and we had several incentives to go into cooperation with Jesma in Vejle. During the entire process we had a good experience with the cooperation with Jesma. They had a very professional approach to the project. When there was a need for another solution, they were always flexible and proactive.

With the current solution we have solved all the challenges we had with the process management of the boiler and we have reached all the accuracy requirements DONG Energy have to this process. All in all we are very pleased with the cooperation with Jesma.

Regarding service and calibration, we have made a service agreement with Jesma for regular service on the weighers every 6 months. The technicians from Jesma will make a visual of the weighers along with a calibration test to ensure that the weighing is still correct.

This provides us with the security we need to control the processes, which are very important to us at DONG Energy.

The picture shows operational manager Jens Kristian Nielsen in front of one of the installed weighers from Jesma



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