

# A Turnkey Moisture Solution

## Sleaford renewable Energy

### Background

Sleaford Renewable Energy plant is a large biomass-fired power plant located in North Lincolnshire, England. The biomass is preferably straw, typically supplied by local straw vendors.

### From instrument supplier to turnkey

As the main contractor for the straw handling system, C&H System chose DSE as supplier of the well known DSE4100 moisture meters for cranes.

In order to take advantage of DSE's experience of moisture testing, C&H System asked DSE to make a turnkey setup of the moisture measuring system offering not only the sensors, but also installation on the yokes and onsite run-in and verification.



Having a moisture division at DSE with a full workshop of dedicated mechanical and electrical fitters, it was easy to assign a team to do the installations and verifications.

The 4 yokes were built at BSV Krantilbehør in Vejle, Denmark, where the DSE installation team installed 18 sensors on each yoke, including:

- Installation of connection boxes
- Installation of moisture meters on grippers
- Installation of cable chains between movable and immovable part of the clamp
- Installation of cables between moisture meters and distribution boxes. Cables placed in protective flexible tubes
- Installation of communication cable and power cables between distribution boxes
- Individual addressing of each moisture meter cable
- Installation of cable clamps to secure the protection flexible hoses

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Case version 1.00.00

### Communication

The control software was installed on the central windows server, communicating with the moisture system via a straw barn wireless LAN, using a Moxa NPort 5230A to create the local RS485 on the yoke.

### Run-in and verification on site

After the yokes were installed in Sleaford, the DSE specialists went onsite to run-in the installation. Verification of all the sensors by the use of verification plates was completed, ending up making a verification report as documentation to the customer to verify that the system is measuring correctly.



**For more information** please contact our sales department at +45 7561 8811

DSE Test Solutions A/S  
Sverigesvej 19  
DK-8700 Horsens  
Denmark

Tel: +45 75618811  
Fax: +45 75615895  
Web: [www.dse.dk](http://www.dse.dk)  
Mail: [dse@dse.dk](mailto:dse@dse.dk)