



GenSet Case Study: Poultry (Poultry Feed)



Industry: Poultry

Application:
Biomass

Country: UK

Power: 2 x 132 kW

Model: 2 x HP145

Steam in/out:
20BarG/4.5 Bar G

Global food processing firm orders two Heliex GenSets for integration with newly installed biomass boiler at its UK feed mill – resulting in annual income of over £1m.

THE CLIENT

Our client provides food and agricultural products, employing over 150,000 staff globally. They operate a European Poultry business and process over 1.5 m chickens every week at their Midlands plant. £35m was recently invested to improve efficiencies and upgrade the technologies at the facility.

This project is focused on the feed mill, located nearby, which produces the feed for all of their poultry farms.

THE PROJECT

Having decided to replace the existing on-site oil boilers with a biomass boiler, our client investigated additional technology that would allow them to generate electricity as well as heat and significantly increase returns on the project.

Operational flexibility was a key consideration as they have variable steam loads depending on how many feed presses are operating at one time.

THE SOLUTION

The oil boilers are being replaced with a Vyncke 4.5-5MW wood pellet boiler and a newly built energy centre will house the boiler plant.

Two Heliex HP145 GenSets will be located adjacent to the current plant room, with skids inside, in place of one of the boilers, which will be removed.

The incorporation of skids reduces cost, minimises site construction time and ensures that the correct steam quality is supplied to the Heliex machine.

Annual income will be over £1m thanks to electricity savings and RHI/ROC incentives for installing an eligible CHP system. Payback on the Heliex GenSets is under one year.

The current carbon offset is 75 tonnes per year and annual electricity savings are £60,000.