

GWE Biogas Ltd

Anaerobic Digester

CO2Sense invested £750,000 in the GWE Biogas Anaerobic Digestion facility in Driffield, East Yorkshire.



The facility is the first commercial AD plant in Yorkshire that processes food waste. It takes in around 50,000 tonnes of food waste each year, which is then processed to generate around 15,000 MWh of electricity, enough to power around 3,350 homes each year.

In its first 10 years of operation, the plant will save around 260,000 tonnes of CO₂.

The plant generates income by charging to take in food waste, selling the electricity generated to the National Grid and claiming the Governments green electricity incentive, the 'feed-in-tariff'.

CO2Sense invested £750,000, which will be repaid to CO2Sense over time once the project is generating an income. This money will then be used by CO2Sense to support other renewable energy projects.

As well as producing clean electricity and diverting 50,000 tonnes of food waste from landfill, the facility has created 12 new jobs so far for the area, and led to the creation of a new thriving business.

The plant has also attracted £5.6 million of private investment along with funding from the Environmental Transformation Fund (administered by Defra and DECC), to help demonstrate the benefits of Anaerobic Digestion.

Renewable Energy

- Received £750,000 revenue share from CO2Sense
- Will take in 50,000 tonnes of food waste each year
- Will generate enough electricity to power 3,200 homes
- Has created 10 jobs
- Attracted £5.6 million private investment

“This plant is an innovative solution to the problems of waste disposal and energy generation... CO2Sense’s help has been instrumental to get the plant to this stage. //”

Tom Megginson - DIRECTOR - GWE BIOGAS LTD

Jemma Benson, CO2Sense Principal Consultant, said “This is a great plant to have in the region. The project is not only generating considerable amounts of clean electricity, but also diverting large amounts of food waste away from landfill, and so making significant carbon dioxide savings.”

“The plant is also proving to be commercially successful and is providing new jobs for the area.”

In addition to financial support, CO2Sense are helping GWE to attract new feedstock to the plant.

Tom Megginson, a Director at GWE, said “We hope to be a market leader in anaerobic digestion. This plant is an innovative solution to the problems of waste disposal and energy generation, and we look forward to helping manufacturers and retailers deal with their food waste sustainably. CO2Sense’s help has been instrumental to get the plant to this stage.”

CO2Sense was established by Yorkshire Forward to help businesses in the region to prosper in the low carbon economy. We provide expertise and funding to help environmental companies to grow. We work with partners to help all organisations to fund and develop initiatives that reduce their carbon emissions.

co₂sense

CO2Sense Ltd, Victoria House, 2 Victoria Place, Leeds LS11 5AE
Tel: 0113 237 8400 Email: info@co2sense.co.uk Web: www.co2sense.co.uk
Registered in England no. 5383346

