



COSGRIFF WHITEHOUSE ELECTRICAL LTD
ELECTRICAL & DATA INSTALLATION ENGINEERS

SWANCOTE ENERGY LTD

Bridgnorth, Shropshire, WV15 5NA

Project Summary: 4 year project to carry out the supply and installation of all cabling, full certification to all power, data and control systems across the site in Bridgnorth, Shropshire.

Background:

Swancote Farm was the first AD Biogas site CWE Ltd were engaged in installing the full electrical cabling system, for MT Energie GmBh.

The client was looking to create an environmentally sensitive installation by providing green energy back to the grid, thereby improving their chances of achieving the targets set by the government for green energy production 2020.

The Project:

CWE Ltd completed the electrical installation to a 500kW farm based agricultural anaerobic digestion plant on the site in 2011, comprising 3 tanks measuring 28m x 8m, with twin membrane roofs, plus 499kw CMP units, gas dryer, central control room, internet communication and computer display, 2 solid feeders, gas flare, weighbridge and condensate pits.

In 2012 a further tank and Mavitec food waste splitting plant were installed, plus a new 630A TPN supply to the waste food building.

In 2013 a 5th 30m x 10m tank was added to the plant to increase storage capacity of finished digestate, with all power and control cabling going to a second MT Energie control panel. A new 300A TPN supply was connected to the second panel and new pasteurisation unit.



Last to be installed was electrical power and data cables to a future waste water treatment plant. The plant now consists of, 5 Process Tanks, 2 Edina CHP Units, a bespoke pasteurisation plant, a Mavitec food waste processing system, an Atritor waste food processing unit and a Bag Lagoon storage facility.

The Results - May 2015

2.1mW output AD Biogas Plant

CWE Ltd worked closely with MT Energie UK Ltd and the client to ensure that the technical elements of the project were achieved and that the modifications to the design were closely co-ordinated. This plant is now at the forefront of the Anaerobic Digestion Industry Sector, demonstrating the continual development and organic growth that can be achieved by technological processes and excellent management techniques.

CWE Ltd continues to deliver outstanding efficiencies.

Testimonial:

"We have found CWE Ltd to professional and reliable in the services they have delivered. Their biggest asset is their site based installation team who are fastidious in their efforts to provide complete customer satisfaction".

Simon Davies - Managing Director, Swancote Energy Ltd.



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