



COSGRIFF WHITEHOUSE ELECTRICAL LTD
ELECTRICAL & DATA INSTALLATION ENGINEERS

St Nicholas Court Farm

Ramsgate, Kent, CT12 5DL

Project Summary: CWE Ltd completed a second electrical installation for a Gas To Grid AD Plant for MT Energie UK.

Background:

Owner and operator Mr Jim Pace after the success of his first project using CWE for the electrical installation to export electricity to the grid, decided to commission a second plant at his other farm using the Biomethane gas production to inject directly into the national gas grid.

The Anaerobic Digestion plant comprises of a four tank system with the standard control room positioned between the two tanks .

A 250 kW CHP unit supplies all the parasitic load to the plant, the residual heat produced is directed via a heat exchanger which heats the grain store, the digesters and all the farm buildings on site.

The Project:

The plant design included 4 tanks, 2 digesters, 2 residue storage tanks, CHP Jenbacher 2G-250kW, 2 solid feeders, gas upgrade system and all ancillary equipment ie. compressor, water chiller, activated carbon filter, biogas cooling unit, control panel.

CWE installed all LV mains, field cabling and control cabling to all devices, installed isolator switches and junction boxes complete with our in house designed weather proof hoods where needed to comply to British standard regulations.



This plant was CWE's second Gas to Grid installation for MT Energie UK also their second plant for St Nicholas Court Farms. Working closely with the design engineers CWE ensured that the highest level of technical standards were achieved and they were fully compliant with BSEN 7671 : 2008 +A3 2015 the UK British standard for electrical installations.

The Results - May 2015

CWE Ltd worked closely with MT Energie UK Ltd and the client to ensure expectations were met and all technical elements were achieved to the customers satisfaction. St. Nicholas Court Farm is successfully exporting gas to the grid. A truly green energy facility which operates without producing any environmental issues, the spent digestate is used as a soil conditioner on the farm.



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