Engineered to deliver

Cameronbridge Bioenergy Facility

Client: Dalkia Utilities Services
Location: Fife, Scotland
Start Date: January – July 2011
Outline Scope:

- Combustion grate
- Water tube fluidised bed biomass boiler (BFB)
- Piping and attachments
- Balance of boiler house Mechanical plant systems
- Combustion air fans and ducting
- Refractory Installations and works
- Fabrication
- Mechanical Installations
- Testing and Commissioning

Client Overview

The Cameronbridge Bioenergy Facility was one of the UK's first sites to demonstrate a sustainable renewable facility by integrating anaerobic digestion and dedicated biomass facilities in one location.

The facility provides 98% of thermal steam and 80% of electrical power used at the distillery. Around 90,000 tonnes of co-products, which would have required transport off- site by road, will be turned into bioenergy in the form of electricity and steam for use at the distillery. The facility will also recover almost a third of the site's water requirements.

After suffering major delays to the program. Dalkia awarded PJD the contract to complete the remaining installation and commissioning scope for the Bioenergy Facility.

Project Scope

PJD were contracted to complete the installation and testing of the steam system including; the combustion grate, water tube fluidised bed biomass boiler, piping and attachments, balance of mechanical plant systems, combustion air fans and ducting, flue gas ducting and refractory works.

The boiler hydraulic test was completed on time as was the balance of plant works scope even though it was extended. PJD received approval of the works from the Notified Body, RSA, on a right-first-time basis.

Our Results

PJD utilised a fast track milestone program to ensure minimal disruption and avoid delays. With all works completed within the proposed budget.

There were a number of key safety areas that were imperative to the projects performance and PJD successfully completed the works with no lost time accidents and a class leading weld rate. This project continues our success in supporting the UK's growth in new renewable energy projects, cementing our position as one of the leading independent mechanical engineering companies in the UK.

Key Performance Indicators

Weld Repair Rate: 0.35%

0330 0414 834
info@pjdltd.com
www.pjdltd.com

PJD Engineering The Sidings, Main Road, Colwich, Staffs ST17 0XD