Case study 210

Bio Fuel Power Replaced by Temporary Boiler

A brand new Bio Fuel Power Generation Plant was due to be commissioned in Yorkshire, but before this could happen a pressure test needed to be conducted. Andrews Boiler Hire responded quickly to the demands of a major European engineering company, providing the equipment necessary to carry out the assessment. This required water temperatures to exceed 30°C throughout the entire 120,000 litre Plant, and pressures capable of testing the system under normal working conditions.

It was decided that a 500kW boiler and a variable speed high velocity water pump would be required in order to ease the process. The solution was for water to be continuously circulated through the system, but there was some difficulty in achieving this. The sheer size of the Plant – made up of more than 2km of steel pipework – meant that attaining a temperature of 30°C throughout could have been problematical. To ensure this issue was overcome, the water passed through an extra plate heat exchanger via the high velocity pump.

The Andrews Boiler Hire range is the most up-to-date in the country, and developed to withstand all conditions. The equipment was retained by the Power Plant until the test had been completed and was overall a complete success. This assignment was one of the first of the new Bio Fuel Power Projects in the UK and demonstrated Andrews Sykes' ability to design, install and operate a solution for a significant engineering task.

Andrews Boiler Hire demonstrated their ability to consult with large international companies while providing an efficient and reliable service. The client was very satisfied with the advice offered and subsequent smooth running of the process.

Power supply 415 V 3 ph N+E 50 Hz Run 10 A
Noise level 45 dBA @ 10 metres
Weight 2,500 kg
Fuel Consumption 60 ltrs/hr
Dimension 3,000 x 2,400 x 2,400 mm (without flue)
Fuel type Gas Oil (natural gas burner available)
Plug type BS4343 5 pin 32 amp

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