

# Case study 223

## Andrews assist Army biomass scheme

A widespread commitment to environmentally friendly energy production has led to a number of industries turning to biomass as a substitute to more conventional power sources. As a biological material derived from live organisms, biomass is readily available when required and allows industrial processes to operate without depending on expensive and often inefficient alternatives.

And now the list of those using renewable fuel now includes the British Army, who are looking to generate its only supply by harnessing horse power within a new power plant. The Kings Troop Royal Horse Artillery – based in Woolwich – looked to produce energy from the waste of approximately 150 horses, and required a test setup before the facility could be fully commissioned.

A well-known regeneration company specialising in major urban developments oversaw this particular project, taking careful steps to ensure a biomass boiler could be installed. This would help burn waste with a view to eventually providing an entire barracks with a reliable supply of hot water. Andrews Boilers assisted the process by connecting a temporary 250kW oil-fired unit to the existing plate heat exchanger. The heat created was then used against the cooling system to check the performance of their cooling equipment.

Our London-based flagship depot enabled a very quick turnaround from the original order to installation, helping the customer ascertain the viability of what at first glance appears to be an unusual application. As well as benefiting from the availability of green energy, the client will also save five lorry journeys per day as there is no longer a need to dispose of waste.



Nominal heating duty 250kW  
Power supply 230V 1ph N+E 50Hz Run 10A  
Plug type BS4343 16A  
Noise level 45dBA @ 10 metres  
Weight 2,000kg  
Dimensions (mm) 3000 x 2400 x 2600  
Fuel type Gas oil/natural gas  
Max fuel consumption 31 l/h  
LPHW connections 50mm (2") storz coupling  
DHW connections 50mm (2") storz coupling  
DHW recirculation connections 25mm (1") storz coupling  
Natural gas connections 1.25" BSP coupling



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