

Case Study

Harpers Environmental, (Middlesborough)

Project type: *Replacement boiler within system modification to production process, Laundry*

Boiler details: *D'Alessandro 300kW CSA,*

Fuel type: *Woodchip*



Site background: *The site was a laundry which used oil boilers to heat water into steam as part of the production process. The oil boilers were old which caused high running costs due to their inefficiency and also high CO₂ emissions*

Solution: *A biomass system was introduced to pre-heat water prior to its conversion to steam via an oil steam boiler. An EN303/5 compliant standard 300kW boiler was installed within the existing production process.*

Wood chip was selected as the fuel of choice as this was already available on-site - free fuel

Benefits to customer: *This novel approach allowed efficiency by both reducing the reliance on expensive oil boilers for the whole steam conversion process but also by using clean waste wood already available as a fuel and thereby reducing landfill costs of disposal.*

This resulted in lower running costs, lower CO₂ emissions, and improved efficiency

Highlights:

- *system modification resulting in more efficient production process*
- *Installed on time and to budget,*
- *Allowed customer to use own fuel supply – free plus saving on landfill cost*
- *Qualified for carbon trust grant funding*
- *Corporate and Social Responsibility benefits for the customer*