

Sustainability Case Study – Using waste oil for heating, Installing a waste oil burner

Department: Technical Services

Location: Hawthorne Road
Depot, Bootle

Officers:

Vin Donnelly, Transport Manager

Bob Fleetwood, Vehicle Services
Manager

Date: August 2008



Background information: The Hawthorne Road depot houses Technical Services vehicle maintenance as well as cleansing services operations for the South of the borough. Heating at the site was fuelled by gas oil bought in. However, the existing boilers were in need of extensive repair and alternatives were considered. After some research was carried out, two waste oil burners were purchased. These could be powered by waste oil generated by the garage operations on site. This waste oil was being taken away by an external contractor for which a charge was made.

After obtaining a waste burner licence (from Environmental Protection Dept.) the burners were installed in Autumn 2008 and will provide heating for the depot. Waste oil is no longer taken away for disposal but used on site.

Approx. Costs:

- Set up costs - £10,000 (2 waste oil burners) + £142 waste oil burner licence
- £140 annual permit fee

Approx. Benefits:

- Annual savings not buying heating oil (based on consumption of 16,500 litres) £9,000 (2007/8 prices)
- Annual saving of not paying to have waste oil disposed of (based on disposal of 2,000 litres) £250.
- Environmental benefits – reuse of oil, less transportation, hence less CO2 & air pollution, greater awareness of impact of heating.

Want to know more?

Contact the Sustainability Team

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Thanks to everyone who
contributed to this case study.

If you have a case study you would like to share please get in touch.