



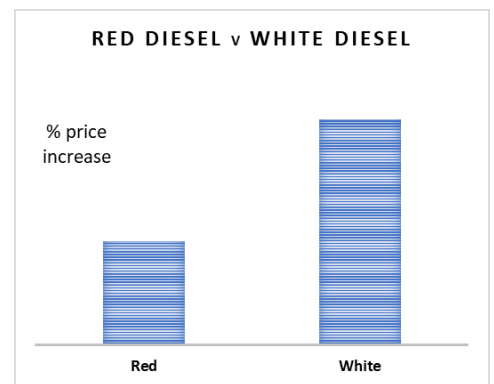
Engineering Solutions and Energy

Use of Generators in Recycling

Case Study

Reduce Power Costs

Utilising mains and generators on site effectively in light of government reform on the use of red diesel



Reduce On-site running costs

Legislation is changing and by April 2022 the use of red diesel will be disallowed for most sectors that use this reduced duty option. The alternative is white diesel or an alternative fuel with the outcome being site running costs will increase.

ESE can carry out a power analysis study at site to monitor power being supplied by both generators and mains. This analysis will allow us to advise on transferring all loads to mains power or sizing the correct generator, all of which will save the site operator money.



Contact us
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Client:

Waste Management Company

Market:

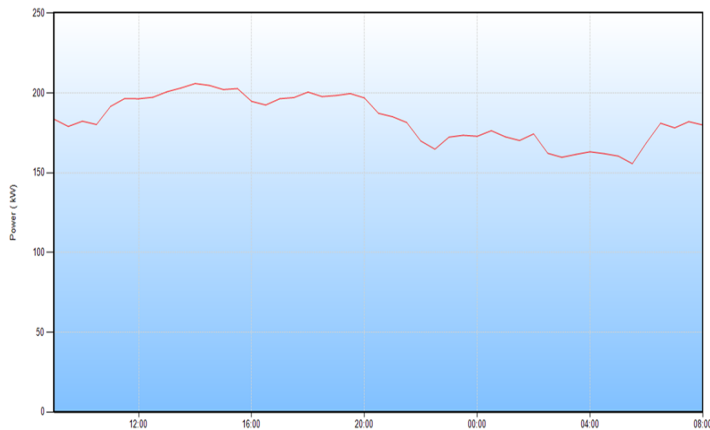
Recycling

Project:

The client was running its operations using a diesel generator on site in conjunction with a mains supply

Problem:

The client has onsite diesel generators powering some of their recycling plant and will have to change to the use of white diesel as opposed to red diesel from April 2022. This will cause the site running costs to increase considerably. They have a mains supply but are not sure if the capacity is sufficient for full site operation.



Site Power Analysis

Services we can offer to mitigate the increase in running costs;

- Site capacity check
- Load demand check
- Liaise with site energy provider
- Upgrade of supply
- Full project management
- Assurance onsite generator is correctly sized
- Clear representative figures of cost savings that can be made

Benefits swapping to mains;

- Eliminate fuel costs
- Eliminate maintenance costs associated with generators and fuel systems
- Minimise downtime due to maintenance
- Eliminate noise
- Reduce your site carbon footprint

Technical Solution:

ESE Ltd carried out a power analysis study to record the exact power usage and ascertain the split between mains and diesel generation. A capacity check took place in conjunction with this via the site energy provider. The capacity check allowed all of the site power to be drawn from the mains without the requirement of an upgrade. We were then able to modify the electrical distribution on site to accommodate this and the client saves in excess of £10,000 per annum.

DOES THIS AFFECT YOU?

The current users of red diesel will only be exempt from changing to white diesel if they sit within the following sectors;

- *Agriculture, forestry, horticulture, fish farming*
- *Rail, including passenger and freight*
- *Powering non-commercial heating systems*

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