



CASE STUDY

Manufacturing Facility
2020 - Total Waste Management

Waste Management | WEEE Recycling | IT Asset Disposal | Compliance Services

All hazardous materials are consigned compliantly and treated according to correct EWC

Cost improvement achieved across all areas of waste management

Site have improved Landfill Diversion on materials



Improving from 55% to 2.5% in 9 months (to Oct 2020)



Reduction of work hours assigned to waste management loading vehicles

Further waste segregation has allowed for more recycling to be managed off site

MANUFACTURING FACILITY

Working closely with our manufacturing client, we focused on the highest impact areas initially, to improve productivity of waste flow from the site.

The site processes were already in place to maximise payload volumes of material being transferred to various disposal facilities. The equipment included a mill size horizontal baler for waste materials, a compaction unit for waste materials, and a specialist briquette machine for foam waste. On site were also a range of skip service for segregated wastes. The challenge was how to move the high volumes of waste to appropriate facilities, ensuring value for money, and delivering an environmental improvement on the current status quo.



Improved Efficiencies

During the mobilisation phase, we worked to introduce a standing trailer for RDF Bales. This allowed the site to pre-load the material ready for collection. It is estimated that this process saves the client around 4 hours per week of forklift loading previously completed any removing the need to double handle material.

The process now allows the trailer to be quickly exchanged for onward transport to a Material Recycling Facility (MRF). By introducing these changes, the client is now able to better manage waste flow to Energy from Waste (EFW) rather than as previously to Landfill on a specialist walking floor vehicle previously used. This also allowed for a direct disposal saving, as well as ensuring maximum capacity on the vehicle, which in turn minimises road movements. Of course, it also diverts circa 30 tonnes of material away from Landfill each week.

Alongside the primary objective of RDF bale movement improvement, we also installed a new regime for Wooden Pallet collection (standing trailer), a number of large skips for Metals, Cardboard Cores, PU Foam, and Bulky Waste. The compaction units are exchanged on a scheduled frequency for General Waste, and a monthly collection of various Hazardous Wastes are consigned from site accordingly. The overall improvement at the site allows a thorough 'audit and test' process to be carried out, ensuring that environmental responsibilities are not only monitored, but measured and most importantly improved. Whilst this year has been an incredibly positive the benchmark has been set for improvement moving forward each year.



Introduction of new Standing Trailer for RDF baled material

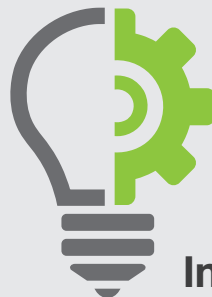


Segregation Area for Hazardous Materials ready for collection



Pallet trailer implemented to ensure efficiency of pallet collections on site maximising value on return

Working with our client, we are extremely driven on moving waste disposal off site, by way of management 'up' the waste hierarchy. To date the improvement has been diversion of all materials (where possible) away from Landfill. The next period of change will be to reuse and recycle as much material as possible, making further positive impact on the environmental commitment of the business.



Innovations

As with all our clients, we seek to monitor, measure and improve all areas of waste management. We feel a vital part of this is engagement with the workforce to ensure they are aware of reasons why materials are segregated, and what happens to them after collection from site.

Waste Experts is pro-actively working with our client, to consider how best to deliver a series of training seminars. As we enter a new world of online training and communication, we will be taking a new approach to education and in doing so, improving the quality of waste management, and managing our clients through a program of improvement.



UN approved containers supplied to safely store loose hazardous materials including lamps