



Waste Powder Recycling

Objective: To develop in-house solution that is either the same or lower cost than the current 40p per Kg for incineration. Either incineration / chemical solution to re-use / re-cycle / incinerate waste powder.

To do this we need you to do research into 'Solutions for Waste Toner Powder'. You need to create a report on a word document no longer than 2000 words. You must include sources and show clear understanding of how to tackle this problem.

There are more findings bellow that will help you with this report:

What we know?

We currently clean 60 Waste Boxes (WB) per day and 25 per month.

$$60 \text{ WB/Day} \times 25 \text{ days per month} = 1500 \text{ per month}$$

Then times this by the 750g of Waste Toner powder and we get a grand total of;

$$1125 \text{ Kg of waste per month}$$

It currently costs us approximately 40p per Kg to send the Waste Toner Powder off for Thermal Energy conversion which is;

$$£450 \text{ per month}$$



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That's not all...

We are producing more waste powder as a business (scrap cleaning etc.) and there are more Waste Boxes coming in than what we are currently cleaning.

Current Estimates are that our costs are closer to £900 per month = £10,800 per year.

Any additional contracts we gain (e.g. OEM- original equipment manufacturer) will also add more waste powder. In addition to this cost, is the bigger concern that we are not in control of this process and so we are exposed to the risk of future increasing costs that are not controllable.