



# Customer Case Study

How Greyparrot identified a 5-year **value loss of over £8.2m** at a British PRF



## Problem:

A large PRF was blending infeed materials manually, based on visual inspection. This subjective and inconsistent method meant that valuable material was often lost to residue without a clear understanding of the cause and how to improve it.

## Solution:

We installed three Greyparrot monitoring units on infeed, residue and product outfeed lines. Our dashboard showed real-time fluctuations in infeed material, which the system correlated to outfeed purity data and data from the residue line.

### What the infeed data proved:



#### Balanced infeed blend:

02/08/2022 07:00-13:00:  
31.1% PET Bottles | 27.7% HDPE Bottles  
| 16% Clear Container | 15.5% Coloured  
Container | 4.8% Flexible Film

#### Unbalanced infeed blend:

02/08/2022 13:00-20:00:  
53.9% PET Bottles | 15.6% HDPE Bottles  
| 14.1% Clear Container | 11.0% Coloured  
Container | 3.0% Flexible Film

Fluctuations in infeed blend show a **10% increase** of valuable material in residue.

### What the residue data proved:



02/08/2022 07:00-13:00:  
**45.2% valuable material in residue**

**+10%**

02/08/2022 13:00-20:00:  
**55.2% valuable material in residue**

## Maximise plant efficiency

Here's what PRF operators can do to take control with the help of AI-driven, real time monitoring:



Maintain the optimal infeed blend to maximise plant performance



Act on live alerts that flag valuable material in residue



Take investment decisions backed by data (CAPEX, OPEX)

## Data-driven progress

It's now far easier for plant managers to maximise future yield. Thanks to composition and value loss data, they can evaluate operational decisions and measure the impact on the bottom line.

**Get in touch**

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Make better, data-driven decisions with Greyparrot

## Results:

We identified a 5-year value loss of over **£8.2m** at their facility. Empowered with real time data from infeed monitoring, this PRF can now control composition fluctuations – and significantly reduce future losses.

The Greyparrot dashboard offers a live system overview in their plant control room, enabling managers to monitor infeed, residue and final purity continuously.