

# waste & recycling facilities support



Valpak Consulting can provide support in the following areas:

- [new material introduction](#)
- [economic appraisal](#)
- [technology appraisal](#)
- [processing system evaluation](#)
- [carbon assessment / LCA](#)
- [composition analysis](#)



With Valpak Ltd having experience of operating its own MRF in Preston with the latest in optical sortation technologies as well as purchasing and selling large quantities of recyclate, Valpak Consulting can provide knowledge and expertise based on first hand experience of collecting and recycling materials as well as actually managing facilities.

## new material introduction

With increasing pressure on recycling facilities to accept a wider range of materials such as mixed plastics and glass, there is a need for facilities to undertake feasibility studies which identify:

- technology required
- resources required
- potential material input / output composition
- recovery rates
- recyclate value
- impact on other product streams
- cost benefit analysis



## economic appraisal

The dynamic nature of waste and recycling facilities, coupled with the dilemma of technological v manual approach can often mean that it is difficult to identify good practice in facilities such as MRFs. Valpak Consulting have developed an economic model to support facilities in identifying the costs and material capture rates for a variety of scenarios within waste and recycling facilities. This can help identify potential processing and financial improvements within waste management and recycling facilities.

## technology appraisal

In the waste management and recycling industry it can be difficult to determine the performance of new and emerging technologies and how they might fit into an existing system or facility. Coupled with this the technologies can often be expensive and may not have a proven track record.

Valpak Consulting can provide support to review and assess technologies to provide the client with an accurate assessment of performance before they undertake what can often be a significant investment.





## processing system evaluation

It can often be difficult to determine the performance of a waste and recycling facility due to the dynamic way in which they operate. Without benchmarking their performance it can be difficult to identify where improvements can be made.

Valpak Consulting are now offering a service which seeks to review processes and facilities such as MRFs to provide the operator with an evaluation of current performance levels (benchmarked against other similar facilities). It also seeks to provide recommendations for improving the performance of the process.

## carbon assessment / LCA

Valpak Consulting have a Carbon Assessment Team which are all fully qualified Life Cycle Assessment (LCA) practitioners trained in the latest tools for assessing the carbon footprint of waste management and recycling systems. This service benchmarks the current carbon footprint and provides recommendations for reducing the carbon footprint of the system or facility.

## composition analysis

In order to assess the performance of a waste management or recycling facility it is important to have a clear understanding of the composition of the material it processes (in feed). Then by identifying the output compositions a clear understanding of how the system is performing can be developed.

Valpak Consulting have a team of researchers and consultants which are experienced in performing composition analysis projects involving MRFs, recycling systems and household residual waste.

