

# Where there's muck there's grass

4R Group continues to develop the recycling market for mixed wastes



INNOVATORS IN WASTE SCIENCE  
AND RECYCLING TECHNOLOGIES

## Do you ever wonder what happens to your household waste?

Significant investment has been made in recent years to develop specialist waste treatment technologies designed to turn mixed 'black bag waste' into recyclable materials.

Once the plastics, metal and glass are mechanically removed, the remaining organic fraction is stabilised, via composting, anaerobic digestion or thermal treatment to produce a sanitised organic rich material.



Converting 'black bag waste' into sanitised organic rich material

## Where does 'black bin waste' currently go?

The 4R Group, in conjunction with several of Europe's leading waste management companies, is pioneering the development of opportunities for recycling these organic rich materials to land.

The usability of the organic rich fraction is almost solely dependent on the feedstock into the treatment process and the technologies and methods used for separation and sanitisation.



Recycling mixed waste to land: from designing specifications to applying in situ

See over for further details →

[www.4r-group.co.uk](http://www.4r-group.co.uk)

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**GROUP**

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## Where does 'black bin waste' currently go? continued...

The 4R Group has developed bespoke specifications for several large waste companies across the UK, each uniquely designed to restore a range of different soils and geological materials in situ.

4R Group has a dedicated team for sourcing and securing suitable land bank, throughout the UK, within viable distances of material production facilities. Our consultants are FACTS and WAMITAB qualified and will apply and obtain the environmental permits required to carry out the recycling activities. If required, 4R is also able to deploy its own mobile plant permits and staff technical competencies at an unlimited number of sites in England and Wales.

## What's going to happen in the future?

Growing numbers of treatment facilities means volumes of organic rich materials which need to be recycled, i.e. that need land bank, are increasing. Pressure on available land bank, eligible to receive these materials is increasing; this in turn intensifies the inevitable competition



between waste recyclers, with a knock on effect on site gate fees which continue to rise as increasing outputs flood the market.

With mounting site and compliance costs it is even more important that treated waste outputs are produced to the highest possible standards, in order to facilitate their recovery to land. If done correctly, this should expand usability to include agricultural applications, development of which is ongoing.

## How can 4R help?

Our experienced recycling team consists of soil scientists, and operational professionals, capable of providing expert advice from

waste treatment right through to the recovery of outputs to land. We can design and recommend unique and bespoke specifications so that outputs produced can be recycled efficiently and economically with confidence.

At 4R we encourage and promote sustainability, and endeavour to recover wastes to help complete important nutrient cycles. Successful recovery of these valuable resources is beneficial to the producers and the landowners, but most importantly it diverts essential nutrients and organic matter from landfill, giving it back to our precious soils.



4R RECYCLING AND 4R ENVIRONMENTAL CONSULTANTS ARE PART OF THE 4R GROUP

**Call us on: 0800 0121 769**

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