

## Recycling

# Gillmoss Materials Recovery Facility

Liverpool, Merseyside, United Kingdom

### The Gillmoss Materials Recovery Facility sorts 40% of household waste into separate streams of recyclables

The introduction of the two Materials Recovery Facilities (MRF) have been instrumental in supporting the Liverpool City Region increase its household waste recycling rate from 19% in 2005/06 to 40% in 2013/14. The MRF sorts mixed paper, card, metal cans, plastic bottles and glass bottles and jars into separate streams of recyclable material for re-processing into new products. Gillmoss, together with its sister materials recovery facility based in Bidston, plays an essential role in supporting the Liverpool City Region to improve its recycling performance and reduce its carbon impact.

Gillmoss employs a system of conveyors that carry the recyclables over sorting screens and other sorting mechanisms. These divide the components of the dry recyclables which pass over magnetic and eddy current separators. Advanced optical materials recognition equipment then separates out different types of materials.

There is some hand-sorting of materials, in addition to automated extraction, as part of the separation system. After the sorting of the materials there is a bulking and storage phase whereby balers are used to compress some of the recyclables (cans and bottles) into dense bales for transport to the materials reprocessors. Other materials are bulked for transport.

The Gillmoss MRF has been operational since 2011 and is designed to handle up to 250 tonnes of recyclables a day.



#### Useful links:

Gillmoss MRF construction time-lapse video

<http://www.merseysidewda.gov.uk/media-and-news/films-and-videos/gillmoss-materials-recovery-facility/>

More information on MRWA's MRFs

<http://www.merseysidewda.gov.uk/our-services/materials-recovery-facilities/>

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