

MDF Recovery

Company Profile

MDF Recovery is a technology developer which is focused on developing, a novel, and proprietary process to recover fibre from waste medium density fibre board (MDF). Over 200,000 tons of MDF waste is generated in the UK alone, with it being incinerated or sent to landfill after a single user life.

MDF Recovery aims to solve this problem through establishing the UK's first commercial scale MDF recycling facility alongside the licensing of its technology worldwide. The fibres recovered from their novel process can then be re-integrated back into MDF production, or used as feedstock for a variety of high value industrial applications. MDF Recovery offer a better ecological solution for the disposal of MDF which generates a new source of raw materials for the wood and natural fibre industry, in turn reducing the demand on virgin fibre produced from standing forests.

Collaborating with BEACON

MDF Recovery has collaborated with BEACON through Aberystwyth and Bangor Universities. The pilot scale equipment at the BioComposites Centre, Mona has helped MDF Recovery to characterise and process their recovered fibres.

BEACON has also assisted in numerous practical trials to establish the effectiveness of fibres as a raw material for new innovative products.



BEACON's latest collaboration with MDF Recovery has been at Aberystwyth University to investigate the application of some of the pilot scale equipment available in the BEACON facility to regulate the moisture content of fibres recovered by MDR's process.

“ BEACON has assisted MDF Recovery to test and optimise our novel technologies in such a short time frame, something no other organization could offer.

MDFR is a start-up company attempting to introduce closed loop recycling opportunities into mature and established manufacturing and retail supply chains. The involvement of the universities enhances MDR's credibility with these commercial partners. ”

Craig Bartlett, Director

BEACON's aim was to investigate whether, through the use of screw press technology, an optimum output moisture content for the feedstock could be achieved at a level appropriate for further processing within particular industrial market applications. Optimization of moisture content in the processed materials can reduce energy costs and thus decrease the carbon footprint of the whole recycling process.

