
Fiberight

Company Profile

Fiberight are a Pontypool-based company operating in both the UK and the US, who have developed a novel recovery process to generate added value from mixed residual waste. At present the by-products are biomethane gas and an engineered fuel product.

Collaboration with BEACON

Fiberight worked with BEACON's life cycle assessment analyst to update and better understand the carbon footprint of their novel waste recovery process. Working with the company's proposed process flow and mass and energy balance calculations, the LCA analyst was able to calculate carbon emissions associated with two potential product pathways: one prioritising biogas production (produced from organic matter within the waste stream) and the other modelling a combined biogas and sugar product stream. The study demonstrated that both scenarios were preferable in terms of carbon balance to simply landfilling or incinerating mixed sanitary waste for energy recovery, and also that changes which were made to Fiberight's process following on from a previous study had resulted in an improved carbon balance.



For further information:
www.fiberight.co.uk

"Working with the BEACON project has helped Fiberight explore new market opportunities for the products that we are now generating from municipal solid waste.

Without this assistance Fiberight would not have been able to access some of these markets!"

*Nick Thompson
Managing Director*

In a second collaboration, fibres from the company's waste recovery process were pre-processed by milling, then dried in readiness for off-site compositional analysis and testing for use in stone mastic asphalt applications, such as road surfaces. The aim is to demonstrate conformance with the EU BSEN1269 standard, which covers properties of textile floor surfaces.