

BEACON Project and Vanguard Initiative

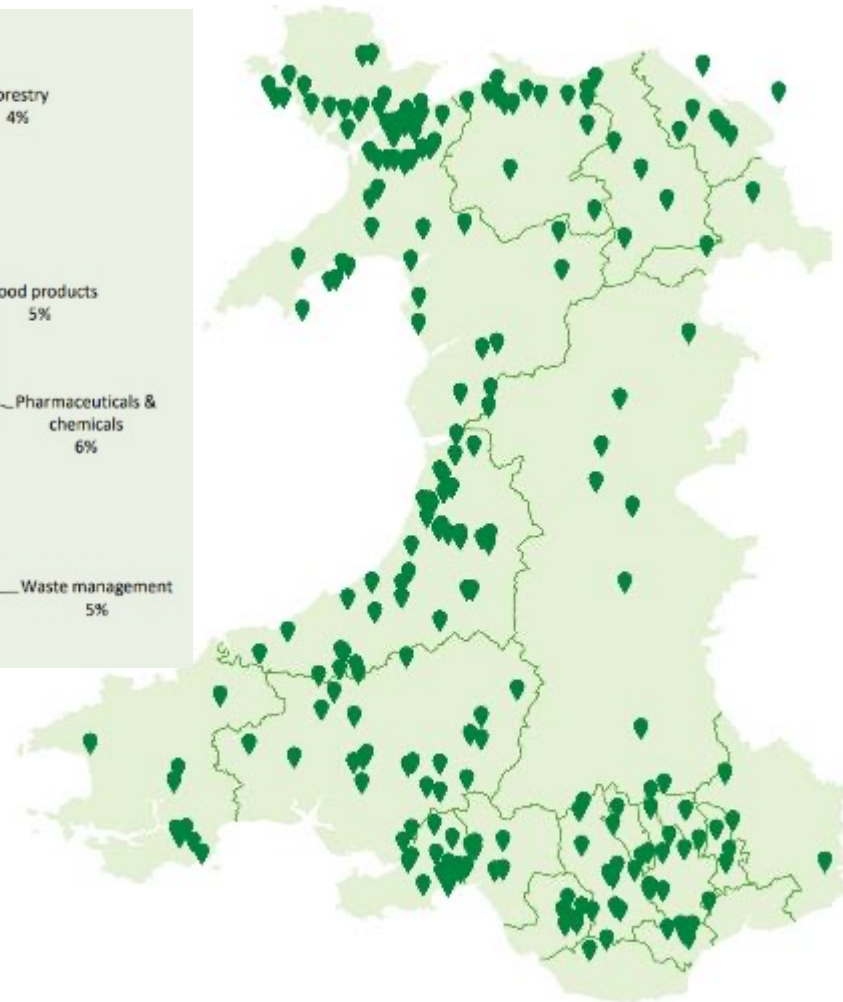
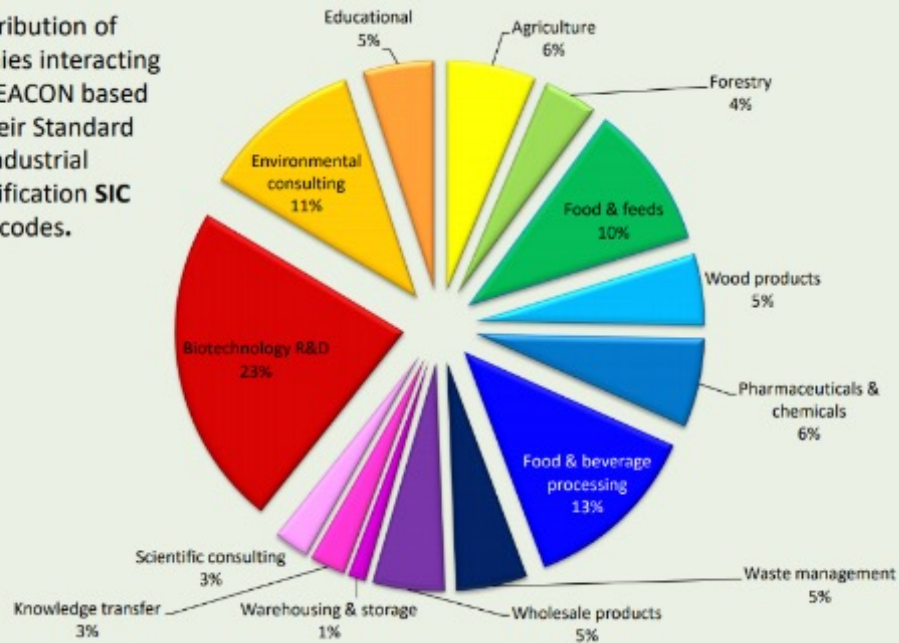


BioComposites Centre
Established for 30 years
Focused on applied research related to
biomass
Funding from competitive bids and
commercial
25 full time members of staff



Distribution of Companies and Organisations

Distribution of companies interacting with BEACON based on their Standard Industrial Classification SIC codes.



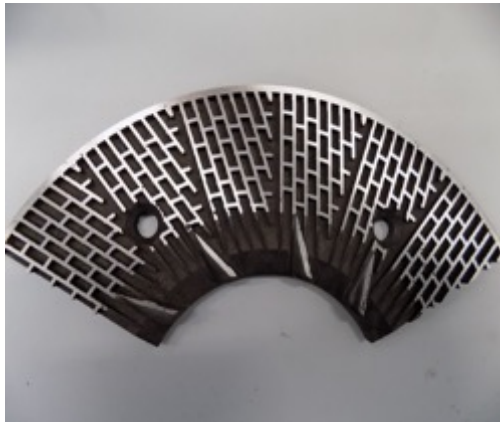
Pressurised Lignocellulosic Refining



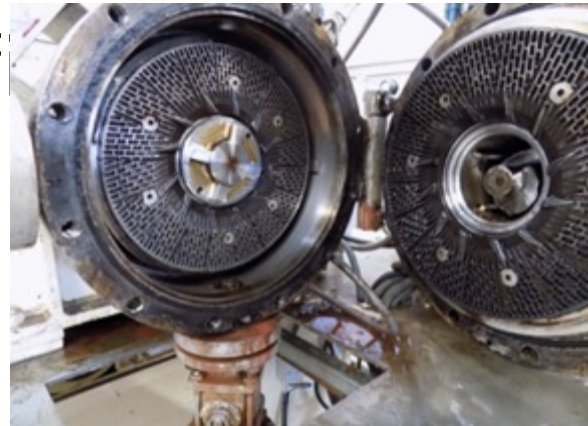
EFB Fibres for food packaging

- Temperature/ pressure- 4,6,8,10 bar
- Refiner Plate Gap- 4 μ m
- Refine for 15 min period at each pressure (6.5-7.3 Kg DM obtained at each pressure)

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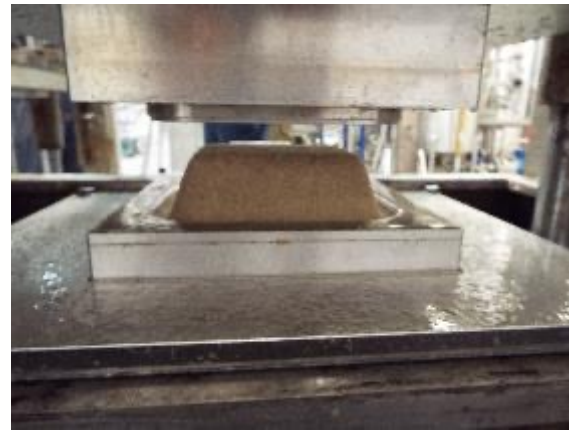
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EFB Fibres for food packaging



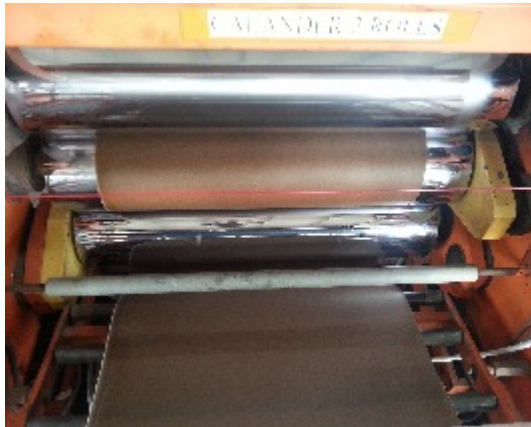
EFB Fibres for food packaging



EFB Fibres for food packaging



PBS-starch-palm fibres composite sheet has also been successfully produced.



The trial was successful at demonstrating the performance of the sheet extrusion equipment *with up to 20% palm fibres in bioplastic formulation*



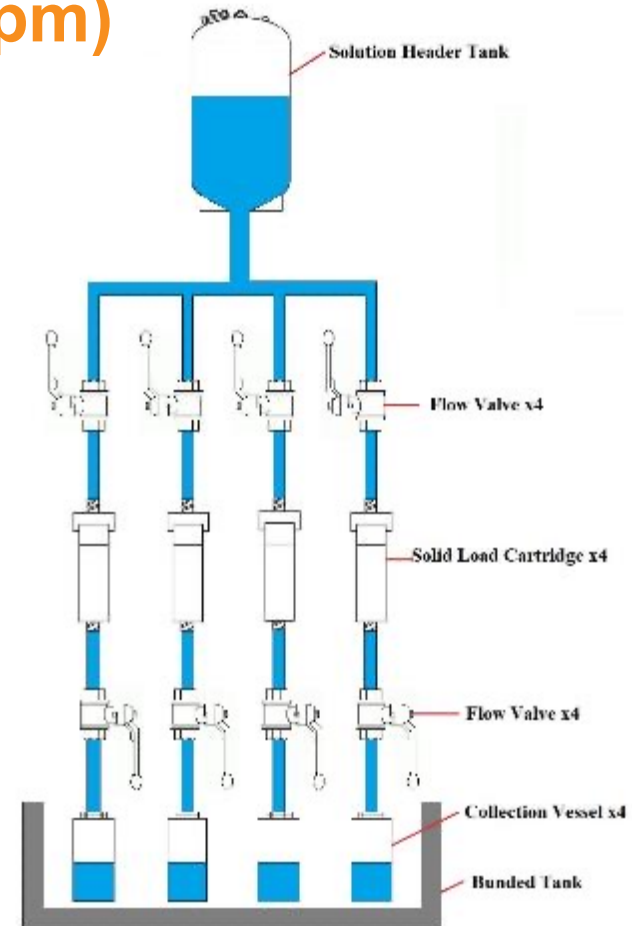
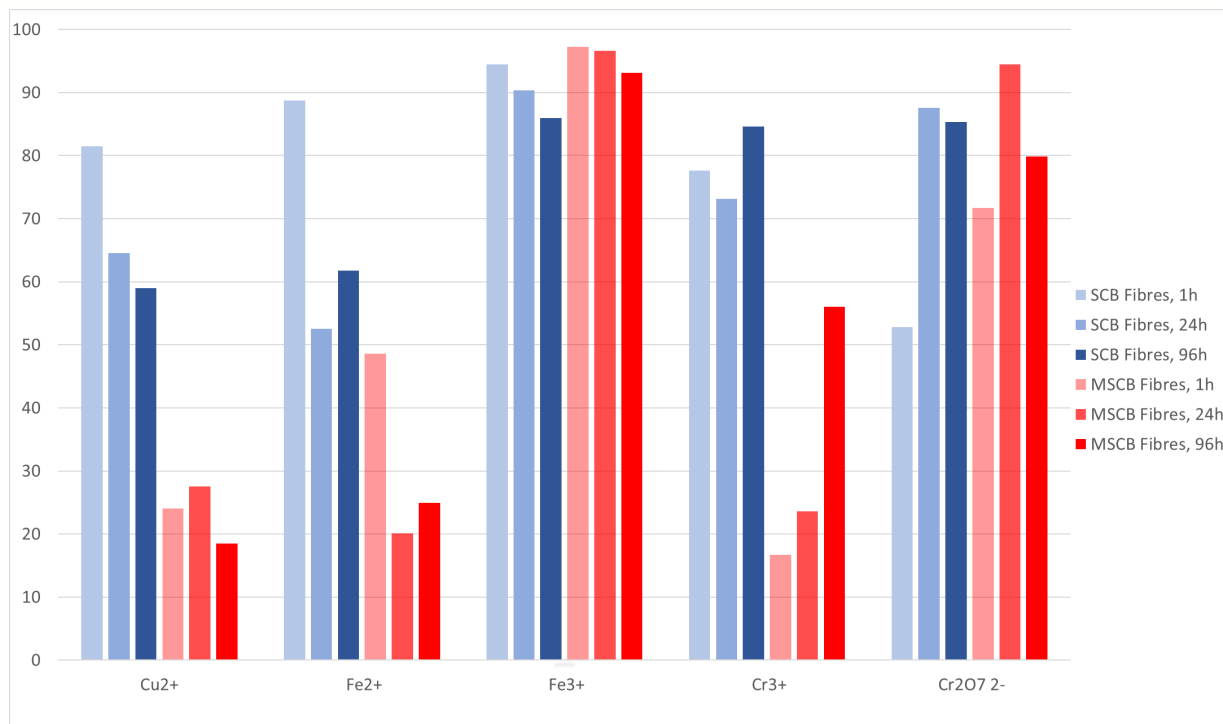
BIOREVIEW

Objectives

- To develop a continuous steam-based pre-treatment process (over 40 kg/h, up to 4 dry ton bagasse in total)
- Residual SCB fibre used to produce water filtration systems by adapting BU patent GB2398518A

BIOREVIEW

Absorbed metals (%) by SCB (at 20ppm)



BIOWILL

An Integrated Zero Waste Biorefinery using Willow

10 partner collaboration- Belgium, France, Ireland, UK

