

UK company seeks manufacturer to produce food packaging products from biomass derived non-wood fibres under a licencing agreement.

Summary

Profile type	Company's country	POD reference
Technology offer	United Kingdom	TOGB20230526018
Profile status	Type of partnership	Targeted countries
PUBLISHED	Commercial agreement with technical assistance	• World
Contact Person	Term of validity	Last update
Rita Elste - Tomsone	26 May 2023 25 May 2024	26 May 2023

General Information

Short summary

A UK company has developed a new material made from biomass derived non-wood fibres, typically wheat straw pulp (can be 100% post harvest straw). This biodegradable and compostable material can be used to make strong disposable packaging products for the food processing sector and to pack fresh vegetables and fruits.

Full description

The company has its origins in the simple idea of using biomass derived materials non-wood fibres, typically post-harvest wheat straw pulp products to substitute plastic and cardboard food packaging.

Replacing paper and plastic food packaging and single use throw away items with straw replacements is the company's mission. Currently, paper products are recyclable only if no plastic or chemicals are used in their manufacture and paper originates from trees, which take years to grow, and have the added benefit of carbon storage.

This biodegradable and compostable material packaging has been tested for structural integrity in life cycle and shelf life that matches plastic alternatives and meets the requirements of waterproofing.

The partner sought is to primarily manufacture the products under licence. However, there are other areas of support

that would help the partnership grow: -

1. The ability to test the products with food processors and packagers, to further fine tune the design of the products
2. The ability to scale up manufacture as required, and
3. The capability to act as a distributor for the products into the food sector

Advantages and innovations

1. It is made from a wheat cereal waste product
2. Straw pulp-based products are easily recycled and use less energy in their recovery, whilst causing less pollution and environmental impact.
3. Has the potential to reduce costs for the food grower and or processor.

Technical specification or expertise sought

Stage of development

Lab tested

Sustainable Development goals

- **Goal 15: Life on Land**
- **Goal 13: Climate Action**
- **Goal 12: Responsible Consumption and Production**
- **Goal 11: Sustainable Cities and Communities**
- **Goal 3: Good Health and Well-being**

IPR Status

Secret know-how

Partner Sought

Expected role of the partner

The partner is expected to primarily manufacture the products under licence and to scale up manufacture as required. However, the ability to test the products with food processors and food companies to fine tune the design of the products.

Type of partnership

Type and size of the partner

Commercial agreement with technical assistance

- **SME 50 - 249**
- **SME 11-49**
- **Big company**

Dissemination

Technology keywords

- **02005004 - Packaging for materials**

Market keywords

- **007003005 - General food products**

Targeted countries

- **World**

Sector groups involved

- **Digital**