

German Start Up is looking for a partner who can help them to produce their recipe of 100 % biogenic glued hemp boards. Hot press with temperatures up to approx. 200° C and a pressure of over 1 N/mm² is required.

Summary

Profile type	Company's country	POD reference
Technology request	Germany	TRDE20231102023
Profile status	Type of partnership	Targeted countries
PUBLISHED	Commercial agreement with technical assistance Research and development cooperation agreement	• World
Contact Person	Term of validity	Last update
Aleš OGOREVC	3 Apr 2024 3 Apr 2025	3 Apr 2024

General Information

Short summary

A German company, having a goal/vision to be the most sustainable chipboard manufacturer in Europe. They are looking for a partner who can help them to produce their recipe of 100 % biogenic glued hemp boards. The product has strengths in accordance with DIN EN 312 - P2 with a 30% weight saving compared to conventional panel materials made of tree wood. Production takes place under industrial pressing conditions.

Full description

German Start Up is looking for hot press, temperatures up to approx. 200° C must be possible, with a pressure of over 1 N/mm². The company with high ambitions in the production sector of ecological building materials, is searching for production capacities. The company has just set an ambition to become a leader in sustainable board materials for furniture and lightweight construction.

In addition to the circular idea, the company will Cradle-to-Cradle certify its products. The basis of sustainability positioning is about insights into the world around us and that the company produces no harmful products or byproducts. All materials are reusable or compostable.

The company is looking for collaboration with someone with manufacturing licenses and infrastructure to make the

board materials.

They are also looking for sector-specific support for private equity and financing.

They are looking for collaborations within two areas:

1. Wood-based materials industry
2. Building product manufacturing

Advantages and innovations

With rising CO₂ emissions and declining forest stocks, they offer a radical alternative. They see the future in a climate-neutral circular economy in line with the zero-waste philosophy.

Technical specification or expertise sought

They are looking for a partner who can help them to develop their idea. Therefore, the company needs a hot press to produce chipboard with minimum dimensions of 4 x 8 feet (around 1,25 m x 2,65 m).

They have experience in producing chipboards or other board materials under high pressure (around 2 N/mm²) and temperature around 190°C.

They are looking for machines and knowledge in materials based on wood and ligno-cellulose fiber.

- recipes and methods of production
- machines and manufacturing process
- private equity and finance
- new ideas

Stage of development

Concept stage

IPR Status

No IPR applied

Sustainable Development goals

• Goal 12: Responsible Consumption and Production

Partner Sought

Expected role of the partner

They are looking for a partner who can help them to develop their idea about taking advantage of their production. Therefore, the company needed a hot press to produce chipboard with minimum dimensions of 4 x 8 feet (around 1,25 m x 2,65 m).

Type of partnership

Type and size of the partner

Commercial agreement with technical assistance
Research and development cooperation agreement

- **SME 11-49**
- **Other**
- **University**
- **SME <=10**
- **R&D Institution**
- **Big company**
- **SME 50 - 249**

Dissemination

Technology keywords

- **02007002 - Building materials**
- **02007019 - Lightweight materials**
- **02007005 - Composite materials**

Targeted countries

- **World**

Market keywords

- **09007002 - Manufacture of construction materials, components and systems**

Sector groups involved