

Corporate Innovation Challenge Template

Challenge Name: BRG3 – New innovative applications for MFC / NC

Code Name: BIOECONOMYVENTURES-2022-OC2-BRG-3

Challenge Domain:

- Develop new applications for microfibrillated cellulose (MFC) / nano cellulose (NC)

Description of the Corporate innovation Challenge

The company constructed the first large commercial manufacturing unit for high purity microfibrillated cellulose (named Exilva) under an EU funded Flagship project. The plant has a capacity of 1500 tpa of MFC / NC and is in full operation. The technology is developed in-house. This product has shown a lot of unexpected, interesting properties and continuously finds its way into unexpected new industries. The company seeks collaboration potentials to develop and document commercially interesting applications for this high performing product.

- novel processes
- innovative product
- knowledge and tech sharing
- establishing a collaborative R&D or research project
- pilot activity

Expected results

The company aims at expanding applications for their innovative new MFC/NC product as a basis for further expansion of this business.

Types of Collaboration

Collaborations like RnD collaboration (funded projects or not), licencing technology/knowledge sharing/Tech transfer, purchasing equipment, corporate venturing.

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Participation confirmation

I confirm Borregaard's availability and participation in the BioeconomyVentures programme. This confirmation allows BioeconomyVentures the right to publicly disclose the company's name, challenge information, logo and website for the purpose of dissemination and attracting new innovators to the programme.

Company Information

Company Name: Borregaard AS

Challenge owner name and last name: Gudbrand Rødsrud

Challenge owner email: Gudbrand.rodstrand@borregaard.com

Company information:

Borregaard is a leading biorefinery with commercial manufacturing of more than 700 different chemicals from wood grouped into:

- specialty cellulose (high purity, high Mw, used by our customers for thickeners, filters, plastics etc.),
- high purity microfibrillated cellulose,
- lignosulfonate performance chemicals (hardwood, softwood),
- vanillin from wood and,
- high purity bioethanol from hemicellulose (20 mill litres/y).

Borregaard also have developed a process for co- production of lignosulfonates and cellulosic sugars (3 different grades of purity 90-99%), a process for production of high purity mannose and extractives from spruce and from side streams from sulphite pulping of spruce.

Borregaard continuously develop their biorefinery model to produce more and higher value products from wood and looks into ventures into biorefining of other biomass sources and production of bio-based chemicals.

