

Contract No: H2020-BBI-JTI-709746-EXILVA

Title: Flagship demonstration of an integrated plant towards large scale supply and market assessment of MFC

Duration: 01/05/2016 – 30/04/2019

Abstract:

Microfibrillated cellulose (MFC) is a new and novel performance additive, based on one of the most abundant raw materials worldwide, namely cellulose from wood. The MFC can compete against oil derived competitors in several application fields, thus providing producers with an opportunity to obtain performance from a natural additive.

The EXILVA project is a market oriented approach for the commercialization of MFC manufacturing. The project focuses on constructing and developing the world's first MFC manufacturing plant, by upscaling of the Borregaard's MFC process from the existing pilot plant to the full scale flagship plant, and on demonstrating an industrial symbiosis between the biomass/forest industry and application industries in a wide range of market segments. The ambition of the EXILVA project is to make MFC commercially available on large quantities for the first time as well as to develop the MFC market further in selected segments.

The development of the flagship plant will go hand-in-hand with the requirements on MFC functionality of the final applications and its products. The coordinator and MFC producer Borregaard will work in close cooperation with the project partners and interested MFC customers in the continuous development of the products. The goal is to secure both environmental and economic incentives for advanced market segments so that European industries have the tools to produce better and more sustainable products.

The project has received funding from the Bio Based Industries Joint Undertaking under the European Union's Horizon 2020 research and innovation programme.

In this project, CHIMAR is working on the use of EXILVA MFC in the development of adhesive systems suitable for the production of composite wood-based panels.

