

P-VABLJENI-PREDAVATELJ

Biorefinery Activities In Austria –

On The Example Of The Research Initiative Flippr

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Biorefinery is an upcoming issue in several industrial sectors. Producers and converters of products focus on the accessible raw material resources. Biorefinery is expressing the synergy of the activities of a conventional refinery (big scale, screening, purifying), based on a renewable feedstock like wood or agricultural crops and will secure the raw material supply for a bio based industry.

In Austria political and industrial activities are running to address the issue of biorefinery research and development.

This talk will focus on the activities of the Flippr consortium around wood-based biorefineries of pulp and paper mills. In 2013 four company partners and three universities built the Flippr consortium. Flippr stands for *Future Lignin and Pulp Processing Research* and named a nationally funded research project.

Pulp is the main product of the pulping industry at the moment, beside that several side products developed over the recent years. Flippr develops valuable applications¹ for black liquor and its lignin as well as new applications for fines – small cellulose material which arise during the pulping process and are not obligatory for every pulp based product.

Several scientific competences are required to reach these ambitious targets. In Flippr chemists, chemical engineers, paper & pulp experts, process & particle engineers and economists together defined a work plan. During lab scale trials engineers and company partners already think about industrial implementation. In parallel the economic value and process costs are estimated.

1. Mayr M, Eckhart R., Sumersky I., Potthast A, *Tappi J.*, **2015**, *14(3)*, 209-212.