

# Sidestream of the month

## July 2018

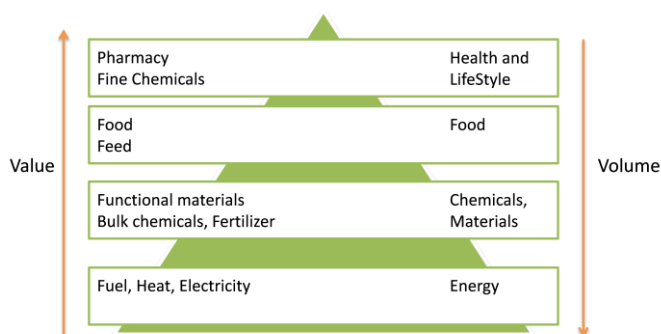
*(Examples for high potential waste, by-products and residues from primary and secondary biomass resources)*

### “sawdust”



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 696394.

Instead of sending to landfill, composting or burning the sidestream directly after harvesting/ processing there are higher added values to be achieved applying a cascading and circular approach:



### A) Highest added value

#### Functional material

Forestry secondary biomass, sawdust, can be added into clay during the **brick production**. This component helps to dry the bricks during the drying process and decrease the extent of the tension in them. This method mainly used when the clay is poor in iron oxide. The output can be applied mainly in the construction sector. Good quality bricks are produced with this technology and additionally CO2 emissions can be reduced since sawdust can substitute the coal in the conventional process of brick production.

#### [Fureszpor-hasznositas](#)

### B) Lowest added value

#### Energy

Through the **process of gasification**, which reduces CO2 as well as waste, saw dust can be transformed to **biogas and fuel**. If the feedstock is freed from sand and bark, **pellets** can be made. With current technologies, 100.000 tons of timber and 32.000 tonns wood pellets/ year can be processed annually from sawdust. Wood chips are produced from larger saw mill residues.

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