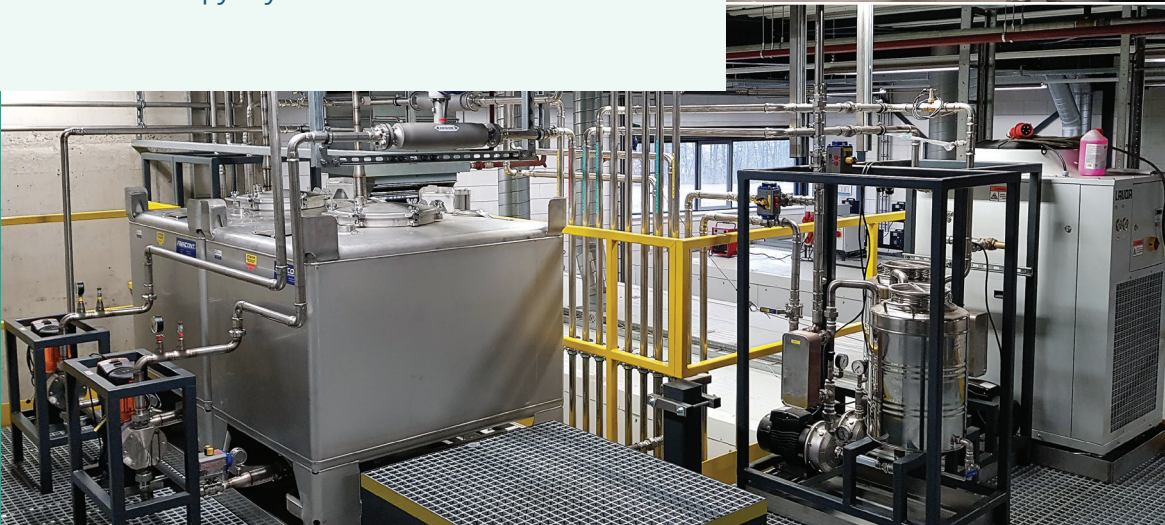


PILOT PLANT FOR EXTRACTING BIO-BASED CHEMICALS AND MATERIALS FROM PYROLYSIS OIL

BTG Biomass Technology Group have developed and built a thermo-chemical fractionation plant to transform all kinds of biomass into lignin, sugars and extractives – feedstock for bio-based products. In this approach, a short thermal treatment at elevated temperature (fast pyrolysis) is followed by a low temperature fractionation of the mineral free, liquid product (fast pyrolysis bio-oil) that keeps the key chemical functionalities intact in separate, depolymerised fractions. The plant has a throughput capacity of 3 tonnes per day of fast pyrolysis bio-oil.



DID YOU KNOW?

The plant is the first of its kind in the world. Until now pyrolysis oil has been used mostly for bioenergy, but this breakthrough enables it to be used for bio-based chemicals and materials. First assessments show products made from pyrolysis oil have a significantly lower environmental impact than their fossil derived counterparts. Wide scale roll out of this kind of biorefinery would contribute to new jobs and growth, especially in rural areas.



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