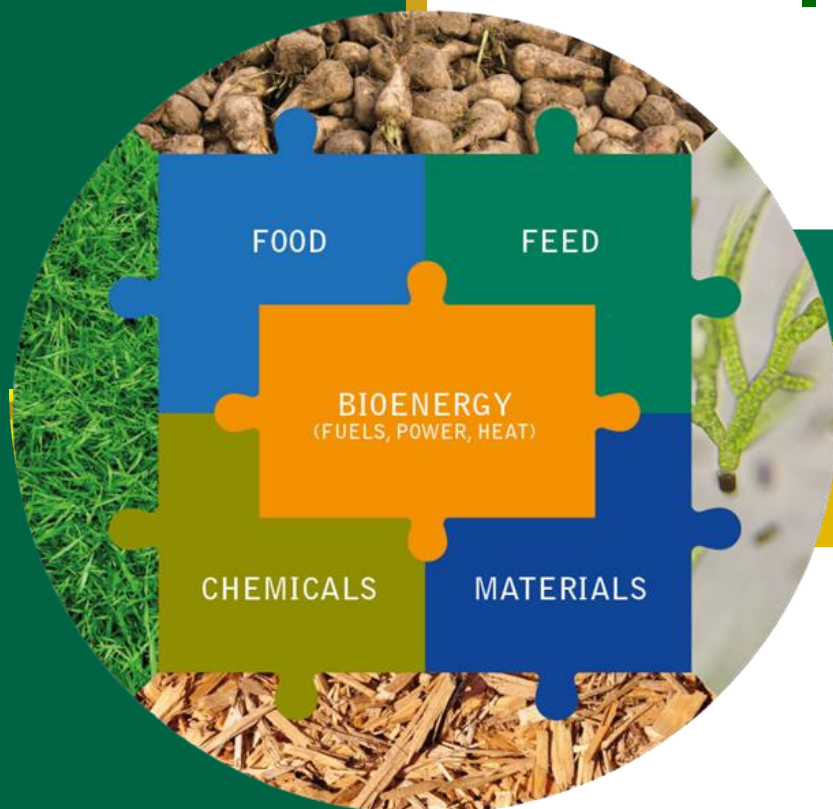


Round Table The Netherlands (NL)



Bert Annevelink & René van Ree
IEA Task42 meeting, Vienna, 24 October 2017

Content

- Agro & Chemistry magazine
- Scaling up lignin crude
- Bioasphalt made of lignine
- Some EU biorefinery projects with Dutch input

Agro & Chemistry magazine

AGRO&CHEMISTRY #3 – 2017

CONTENTS



EFIB 2017

Agro&Chemistry was present at the EFIB 2017 to **report on the latest developments**. Read more about it in our **News** section.

MATHIEU FLAMINI:
FOOTBALL ENTERS THE BIO-ECONOMY

TOM VAN AKEN:
MARKETS ARE GETTING READY



- One of the recommended sources for information about Dutch situation



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Scaling up lignin crude

- The aim of the InSciTe project Lignin Riches is to transform lignin into an intermediary product crude lignin oil (CLO) via a thermo-catalytic process
- This CLO can be used as marine fuel
- Company Vertoro plans to scale up the process at the Brightlands Chemelot Campus in Geleen
- Pilot scale: a barrel (160 litres) of oil a day
- Patent applications are still pending



Reference: www.agro-chemistry.com and <http://www.chemelot-inscite.com/en/project/lignin-riches>

Bioasphalt made of lignine

- The first bioasphalt bicycle path based on lignine was opened in June on the Campus of Wageningen University & Research
- Research to replace the fossil adhesive bitumen in asphalt with lignine
- The bioasphalt is produced according to a patented formulation of 50% lignine and 50%



Reference: <http://www.wur.nl/en/article/Bioasphalt.htm>

Some EU biorefinery projects with Dutch input

- **Macrocascade** (2016-2020) - viability, and bioeconomic impact of processing cultivated seaweed to create a diverse range of high-value products - BBI JU - www.macrocascade.eu
- **Pulp2Value** (2015-2019) - objective is to isolate more valuable products from sugar beet pulp – BBI JU - <http://pulp2value.eu/>
- **Drive4EU** (2014-2018) - dandelion rubber and inulin valorization and exploitation for Europe – EU-FP7 - www.drive4eu.eu
- **URBIOFIN** (2017-2021) - objective is to demonstrate techno-economic and environmental viability of an integrated and innovative biorefinery for the transformation of the organic fraction of municipal solid waste (MSW) into new marketable bioproducts, chemical building blocks, biopolymers and additives. - BBI JU - www.urbiofin.eu



Reference: <https://bbi-europe.eu/projects>



IEA Bioenergy



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Thank you

www.iea-bioenergy.task42-biorefineries.com