

YOUR BROKER FOR WASTE-BASED FEEDSTOCK & BIODIESEL

Waste-based feedstock and biofuels market in Europe

19 October 2016

GREENEA



5 chemin des Perrières

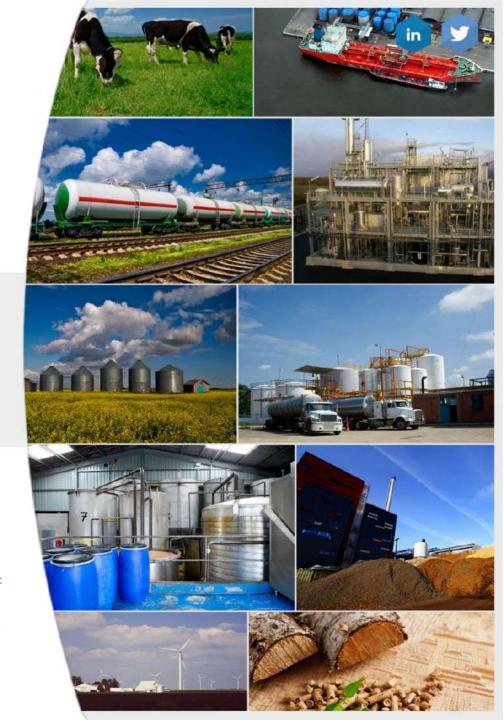
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Agenda

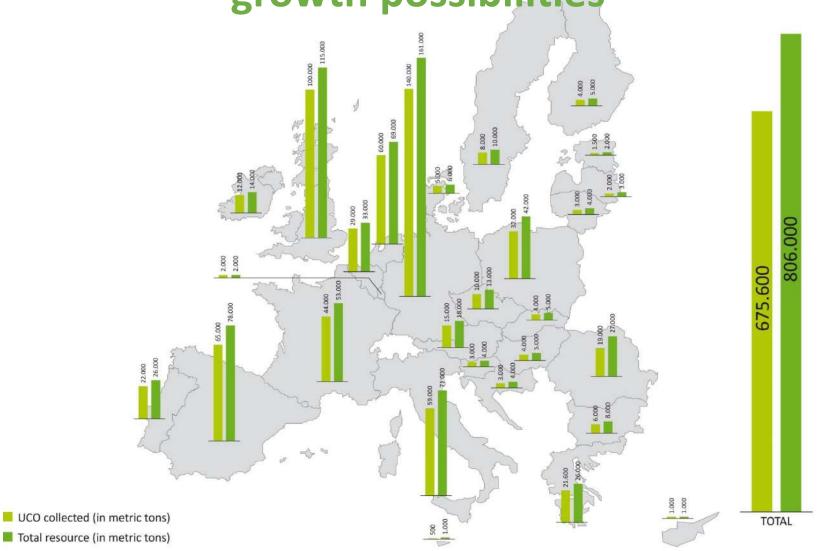
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Overview of the current market situation





European UCO market is already mature with limited growth possibilities



To secure enough feedstock waste-based biodiesel producers have to look for alternative sources

Household collection



Supply: low quantities and difficult to collect



Interest: low due to high collection

Not really a viable option due to high operational costs, relatively low quantities to gain and unsure quality.

Imports from overseas



Supply: decreasing due to rising local demand



Interest: high due to mature market in

Europe

Interesting option, however, the quantities offered are decreasing and the competition is fierce Requires some initial investment but allows more flexibility on quality and thus gives access to bigger volumes.

High acidity feedstock



Supply: high availability

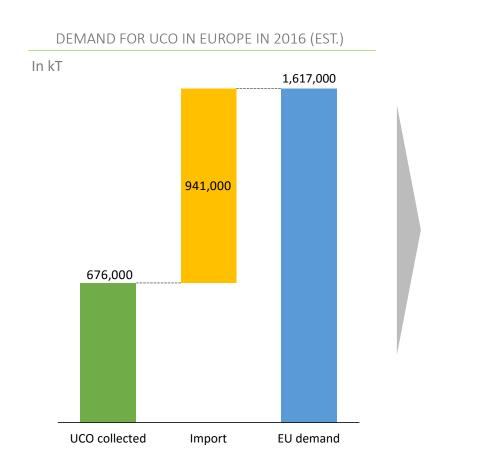


Interest: still moderate due to processing

difficulty



Europe relies on UCO imports for biodiesel production but competition overseas is fierce







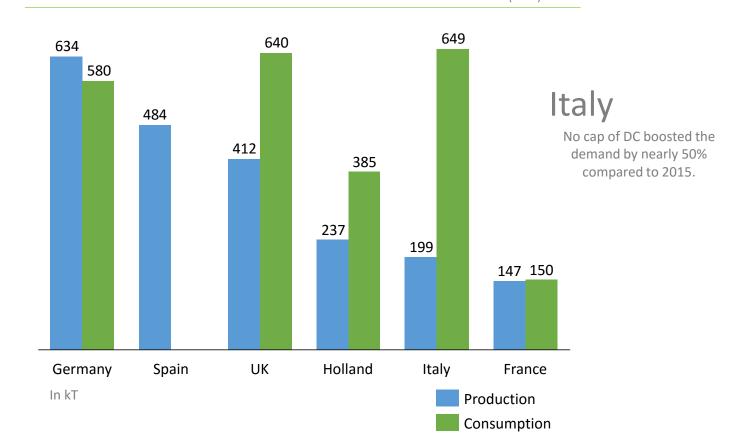
Due to investments in UCOME production in Asia, UCO quantities for export will be limited there



Germany, Italy and the UK are key players on the waste-based biodiesel market



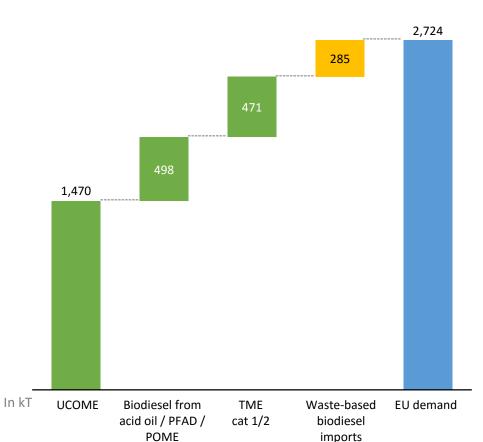
WASTE-BASED BIODIESEL PRODUCTION AND CONSUMPTION IN 2016 (EST.)



Spain No local demand due to lack of DC scheme.

The supply of waste-based biodiesel in Europe does not cover the local demand



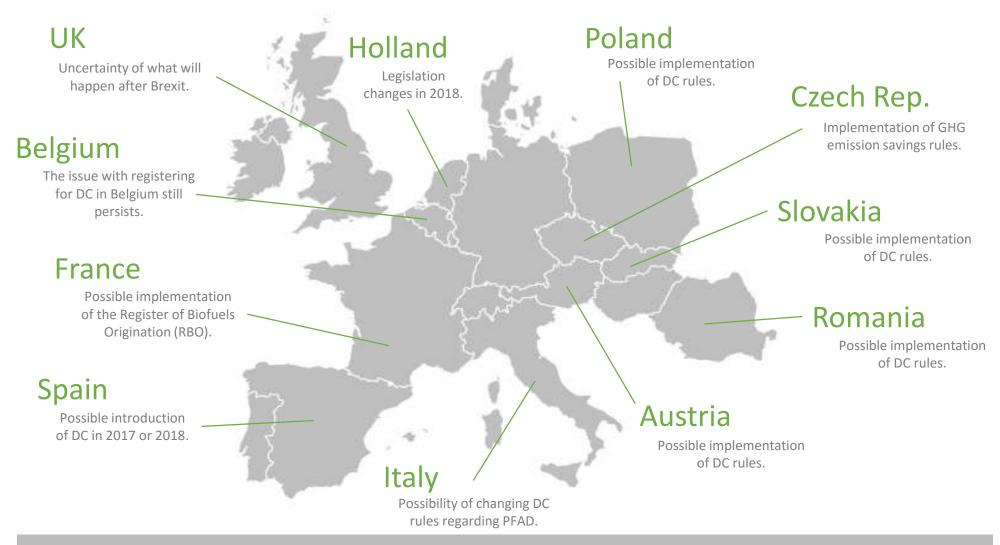


10%

Percentage of waste-based biodiesel demand in Europe that has to be covered by import



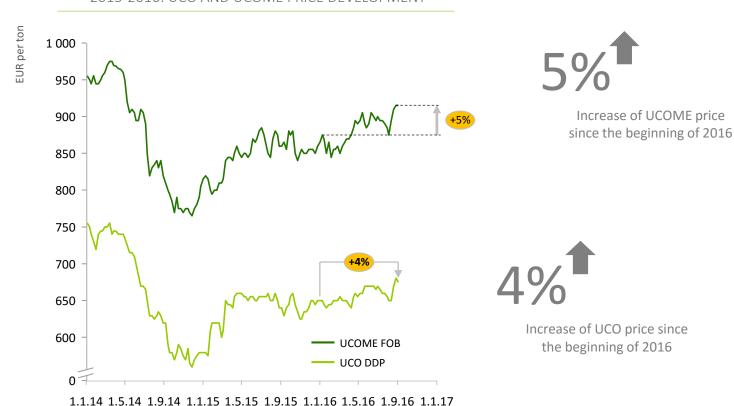
The supply-demand structure might alter due to coming regulation changes



Pricing

The margins for UCOME producers have been increasing since the beginning of the year

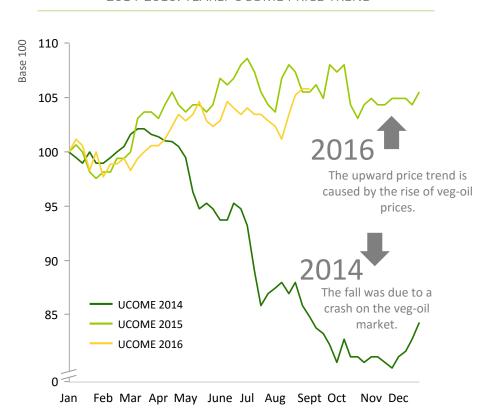




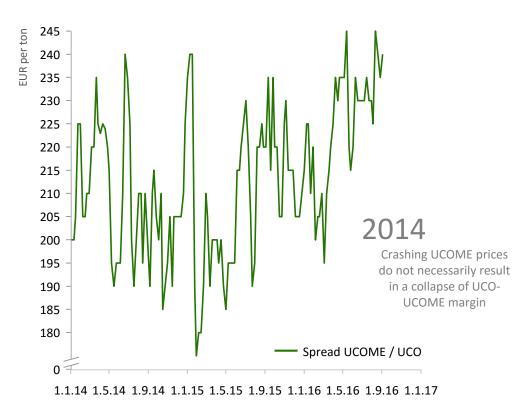


In 2016, UCO and UCOME show again an upward price trend

2014-2016: YEARLY UCOME PRICE TREND



2014-2016: SPREAD BETWEEN UCO AND UCOME



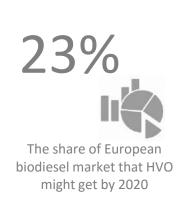
HVO: market development

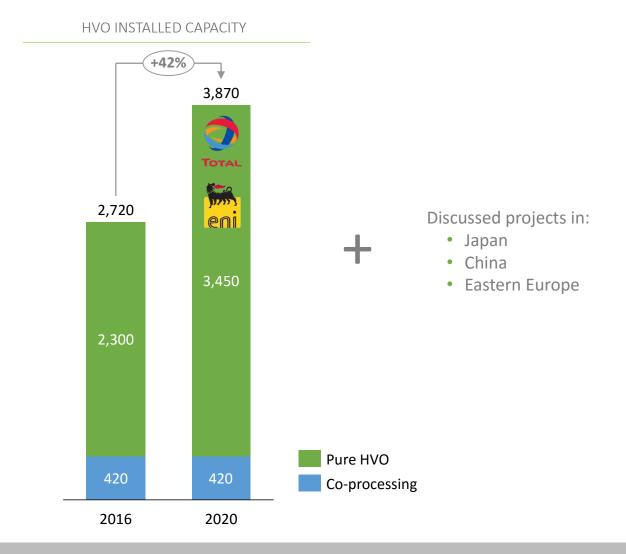


In the last 5 years, HVO has been developing rapidly



TOTAL and ENI plants will significantly increase the HVO production capacity in Europe







Conclusion

HVO development and struggle for feedstock supply will dominate the market in the next 5 years



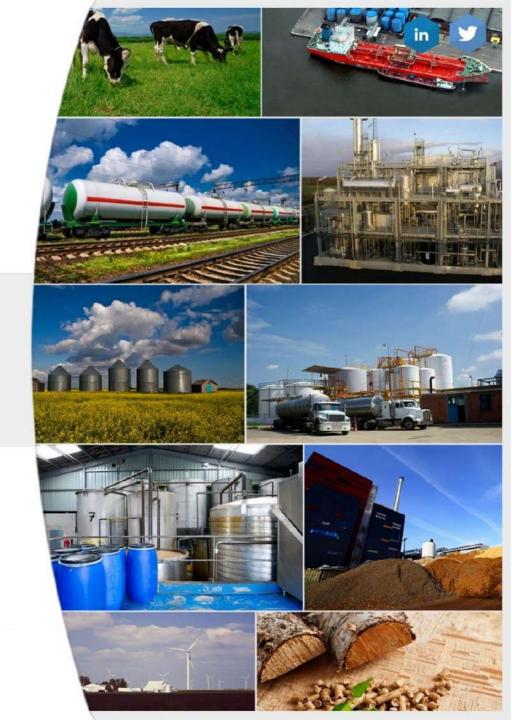








Why Greenea?



Why Greenea?

MARKET EXPERIENCE

GREENEA is an independent brokerage and consulting company founded in 2007. It specialises in waste-based raw materials and biofuels.

GREENEA offers its services to companies using raw materials in their production as well as to various other players from the oleo-chemical, animal feed, bioenergy and biofuels markets.

It was our conscious and strategic choice to position ourselves on the market of raw materials that do not compete with the food sector.

GREENEA OFFICES IN EUROPE



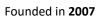
From our two offices in Paris and Prague we communicate with clients from all around the world thanks to our international and multilingual team.



We speak: English, Spanish, Portuguese, Polish, German French and Italian









Since 2011 our average annual growth is 18%

WIDE INTERNATIONAL PRESENCE





YOUR BROKER FOR WASTE-BASED FEEDSTOCK & BIODIESEL

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