

THE DECARBONIZATION POTENTIAL OF USED COOKING OIL

THE POTENTIAL OF BIOWASTE FOR A CIRCULAR EUROPE

BIOHEC-LIFE PROJECT

15 March 2017 – European Economic and Social Committee



































Ugly Truths...





Finantial Times on Fatbergs



'Thames Water spends £1m a month on fatberg clearance'



University College Dublin research



 Cost of clearing sewer blockages for local authorities up to 79 million Euro a year only in the UK.

FOGwaste Project:

- Critical evaluation of Dublin City Council's Fats,
 Oils and Grease (FOG) Programme and an
 investigation of the potential to implement similar
 initiatives internationally.
- http://www.ucd.ie/biosystems/research/research projects/fog/



Lack of collection equals harm!

- Budgetary consequences for local authorities
- Potential environmental consequences

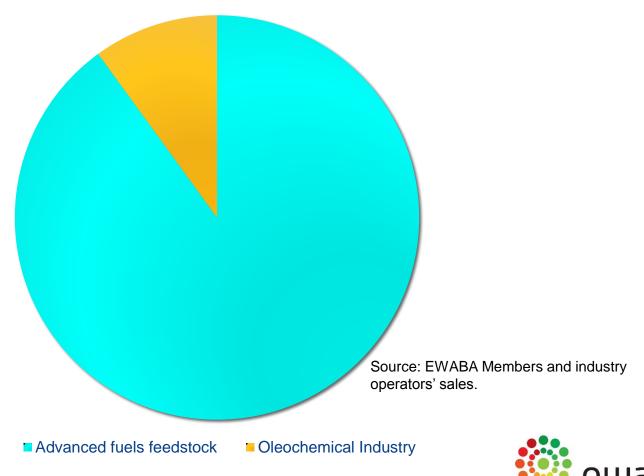


- Separate segregation is needed
- What to do with this waste?



Feedstock for biodiesel production





Definition(s) of advanced biofuels

 Recital 7 ILUC Directive (2015)

UCOME meets 4
 Criteria:

- 4 Criteria:

 - 3. with low risk of causing indirect land use change, and 3. No ILUC emissions
 - 4. do not compete directly for agricultural land for the food and feed markets."

Non-crop-based= Non-food or feedcompeting

 Draft Art. 2 in RED II Proposal: Room for improvement



Mapping UCO Collection's potential – The Wasted Project / Greenea Research



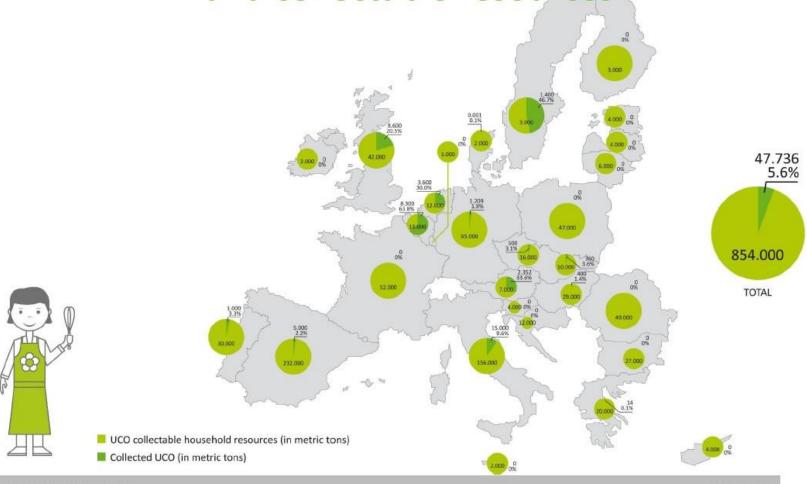




An Assessment of Advanced Biofuels from Wastes & Residues



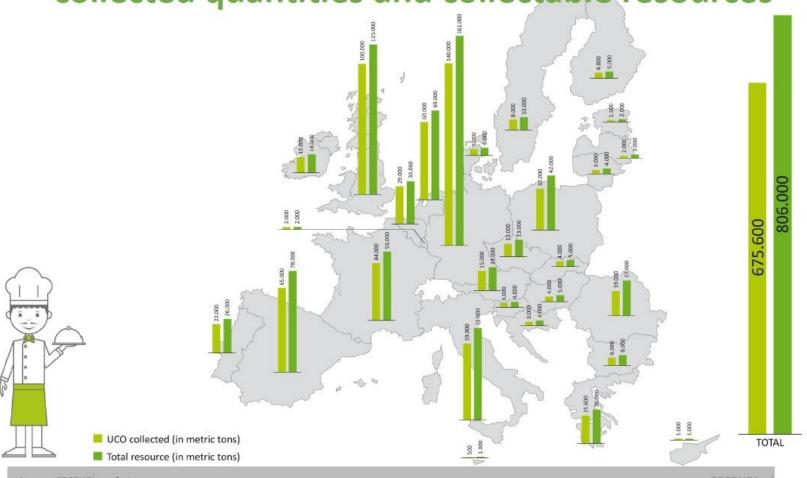
Household UCO collection: collected quantities and collectable resources



Source: GREENEA analysis GREENEA



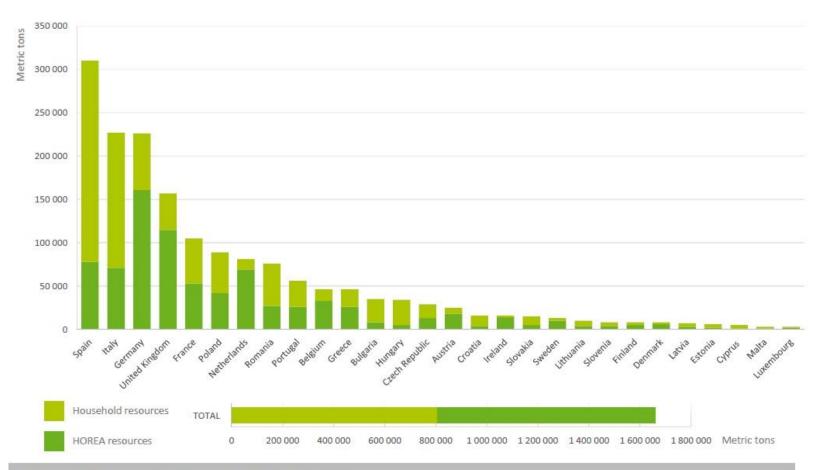
Hotels, Restaurants and Catering UCO collection: collected quantities and collectable resources



Source: GREENEA analysis GREENEA



Resources coming from Households and Hotels, Restaurants and Catering



Source: GREENEA analysis Horeca: Hotels, Restaurants and Catering

GREENEA |



Aggregated figures

Collection Type	Availability	Actual collection	Uncollected volumes
Household	854,000	47,736	806,264
Professional	806,000	675,600	130,400
Totals	1,660,000	723,336	936,664



However...

- Less than a third of the EU cooking oil consumption per capita
- BioDieNet project (2009): total UCO availability in the EU-27 (Minus Croatia) is 3.55 million tonnes
- Range 1.660.000 to 3.550.000 t



Identified Trends – Household collection

- Belgium, the Netherlands and Austria managed to develop comprehensive large-scale UCO collection systems for individual households.
- Sweden has widespread successful grassroots local initiatives
- Marketing /pedagogy are key factors to boost household collection
- Collection process as simple and user-friendly as possible is a priority.
- Household collection is only in its introductory stage and has big growth potential in the EU. Currently less than 50,000 tons of UCO are collected per year from households across Europe.

Thank you!

- Questions?
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