



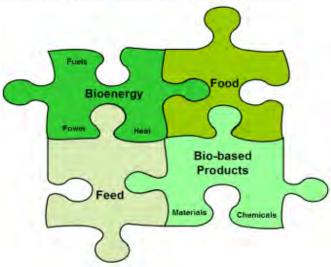




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JOANNEUM RESEARCH Forschungsgesellschaft mbH





IEA Bioenergy

Task 42 Biorefining

Statement aus der Österreichischen Mitarbeit in der IEA Bioenergy Task 42 "Biorefining"

Gerfried Jungmeier

Themenworkshop "Biobased Industry", Wien am 5. Dezember 2013

There is Competition for Different Biomass Uses





Bioenergy

(heat, electricity, transportation fuels)



Biomăterials

(e.g. paper, construction material, chemicals, cotton, rubber, fertilizer)

Maize What For? – Two Green Arguments

JOANNEUM RESEARCH RESOURCES

This plastic bag is made from maize, a renewable resource, and decomposes naturally



This biofuel is made from maize, a renewable resource to reduce GHG emissions









How to Use a Tree?



Questions:

1) Which part of the tree do you mean?

(stem, branches, tops, roots)



Pulp & paper



Power & heat





How to Use a Tree?



Questions:

1) Which part of the tree do you mean?

(stem, branches, tops, roots)

2) Today or in future?

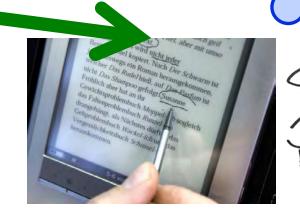
(bioplastic&biopower for e-book)



Pulp & paper



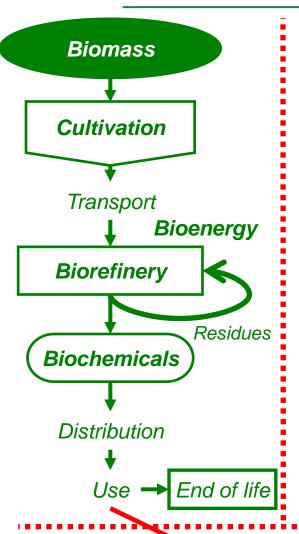
Power & heat

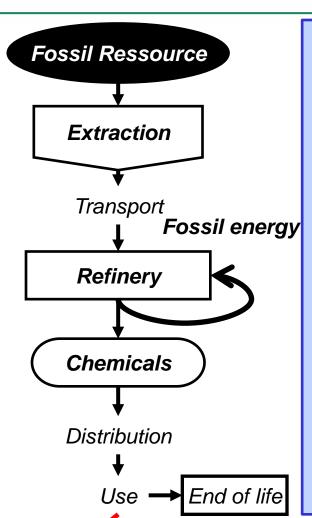


Plastic & power.

Discussion on Reasons for "Good" GHG Balance of Biochemicals







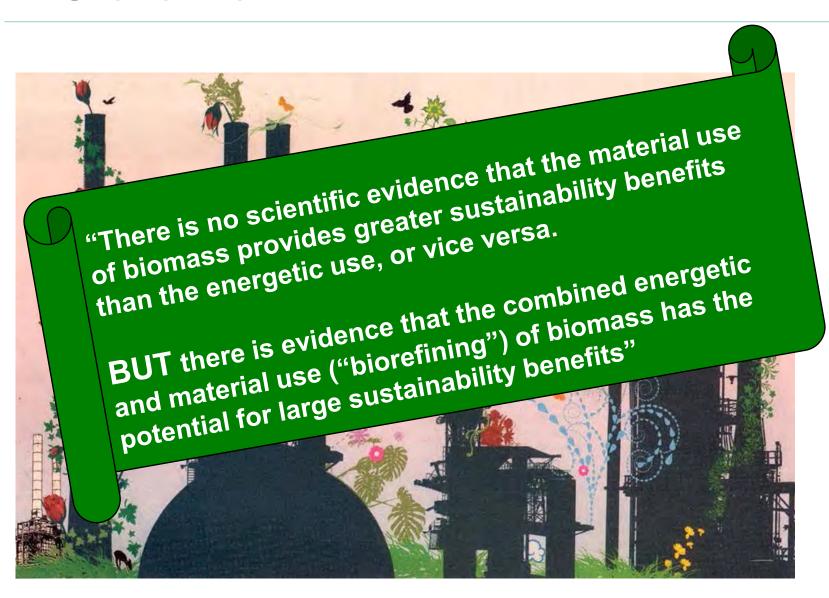
- 1. Counting of carbon storage effects
- 2. Inclusion of "end of life" treatment:
 - C-recycling
 - Combustion with substitution of fossil energy
- 3. Type of energy used for production & recycling
- 4. Amount of energy used in value chain

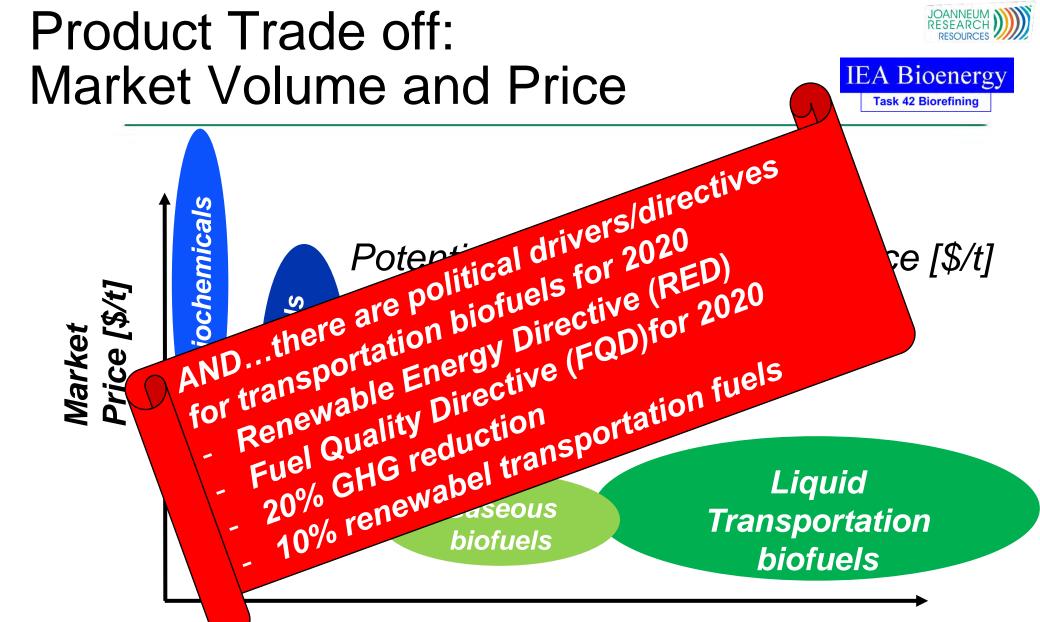
Mainly use of bioenergy from residues brings benefits and medium-long term biogenic carbon storage

Product services



A Statement





Austrian Participation IEA DEA ROPERATION Bioenergy Task 42 "Biorefining"

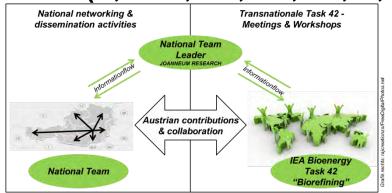




Task 42: since 2007 with 11 countries (A, AUS, CA, DK, FR, G, I, J, NL, US)

Main activities:

- **Exchange of information**
- **Networking**
- Key areas (I V):



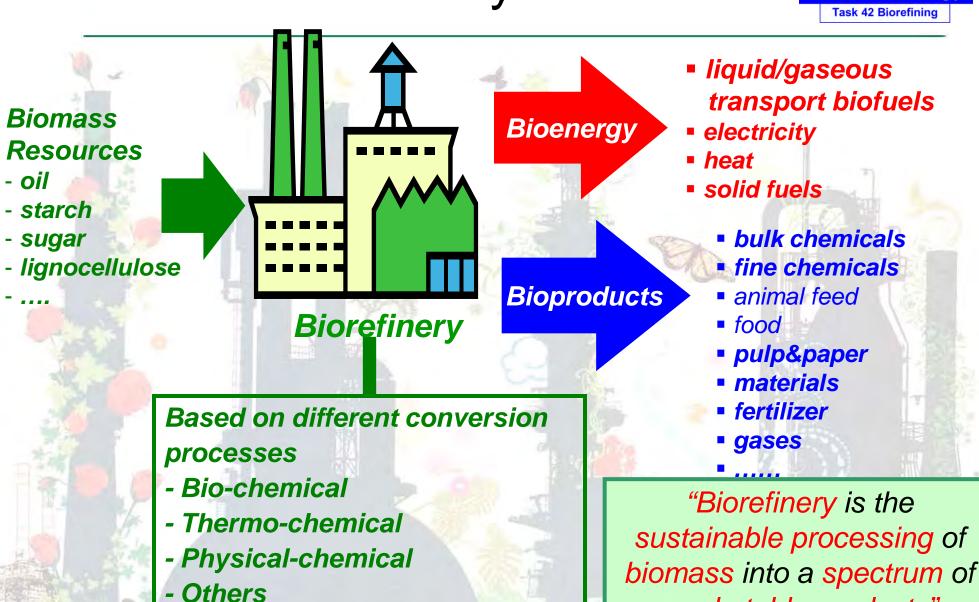
- Market deployment aspects for biorefineries (success factors, changing technologies, central/decentral processing, Biorefinery-Complexity-Index)
- Stakeholder support for future BioEconomy (integration in existing industrial infrastructures, Biorefinery Factsheets, National case-studies, added-value products)
- Optimal sustainable biomass valorization (supply chains, biomass demand, optimal biomass valorisation)
- Policy&decision advice (roadmap, policies, country reporting)
- Dissemination&training activities (task&stakeholder meetings, website, database biorefineries, newsletters, reports, brochures, leaflets, presentations, training course)



This is a Biorefinery



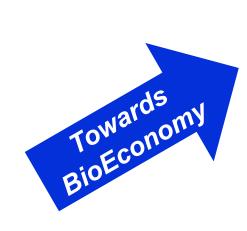
marketable products"

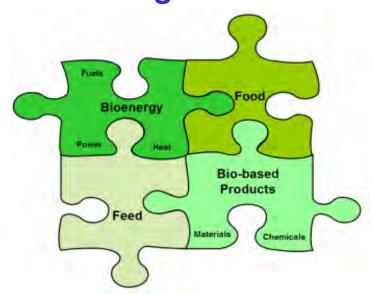


The New Way in BioEconomy: From Competition to Integration

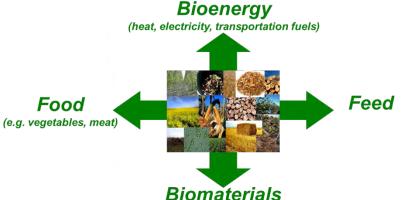








Competition



(e.g. paper, construction material, chemicals, cotton, rubber, fertilizer)



>> More about AA Bioenergy and Task 42 partners