

Biofuels Trade and Certification

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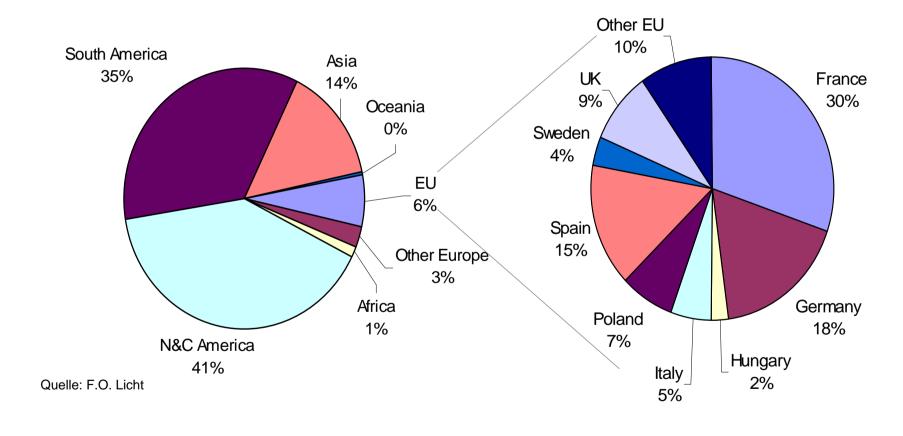
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Outline

- Biofuels as a global commodity
- Imports and Exports
- Certification and Sustainability
- Certification Process
- Open Questions



Bioethanol Production 2005

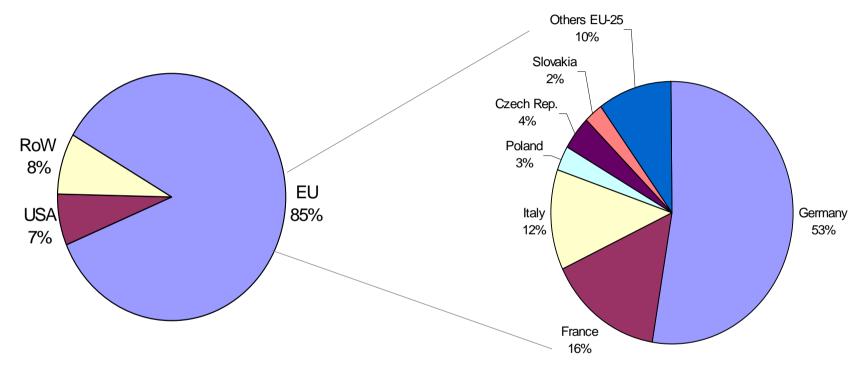


45 Mio. m³ Ethanol were produced in 2005, in 2006 50 Mio. m³ are expected

Only about 2,7 Mio. m³ were produced 2005 in the EU, for 2006 3,1 Mio. m³ are expected



Production of Biodiesel 2005



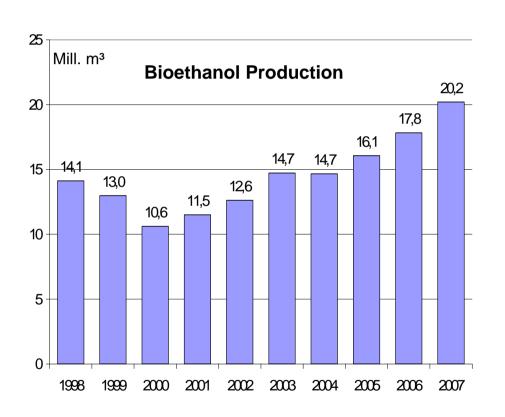
Quelle: Diester Industrie International/ EBB

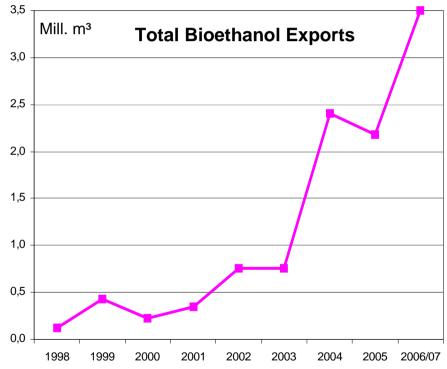
Worldwide Biodiesel production is 3,8 Mio. t in 2005

Of which 3,2 Mio. t are produced in the EU, more than half of it in Germany



Biofuel trade is growing faster than production





Source: F.O. Licht, 2007; UNICA



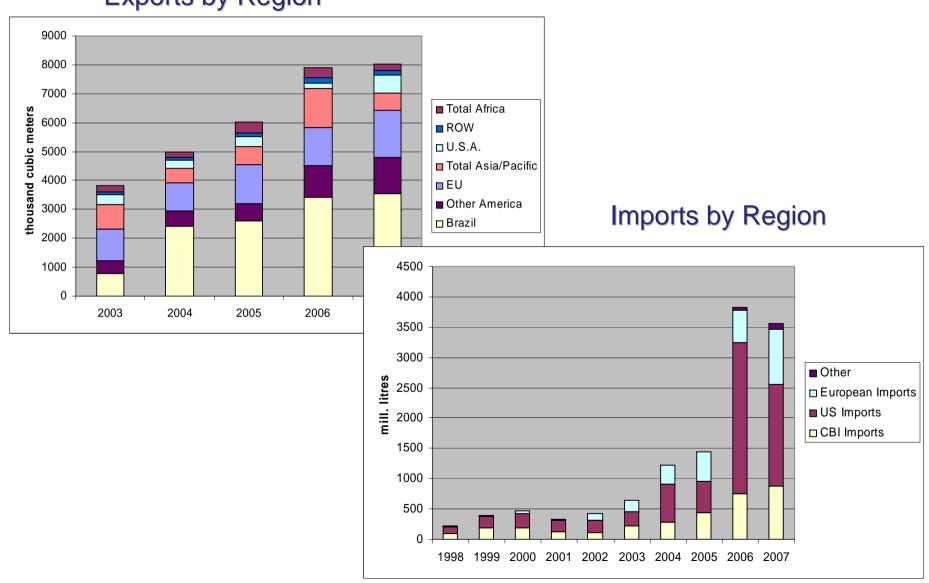
Ethanol is classified as an agricultural good and enjoys much higher tariff rates than biodiesel that is classified as an industrial good

Import Duty Bioethanol Import Duty Biodiesel 0.192 €/liter (undenatured) 6.5% ad valorem 0.102 €/liter (denatured) EU Major vegetable oil producers (e.g. ARG, IND, MLY) 101 developing countries enjoy duty free access. Brazil have duty-free access (covered under GSP) is not among them (GSP, EBA, ACP) 0.1427 US\$/I plus small ad valorem tariff (2.5% undenatured and 1.9% denatured) USA 1.9% ad valorem Some countries in the region enjoy various forms of duty-free access (CBI, NAFTA, CAFTA) 182% undenatured 12.5% 30% denatured India For use by chemical and petroleum industry: 10% Crude palm oil: 50% Rates not totally clear, many changes take place 20% ad valorem (termporarily lifted, e.g. in February 2006 when sugar prices surged and ethanol shortage Brazil n.a. was possible) Duty-free trade within Mercosur

Ethanol's agricultural classification allows countries that impose high tariff rates on ethanol more time to liberalize ethanol trade, protecting domestic producers longer

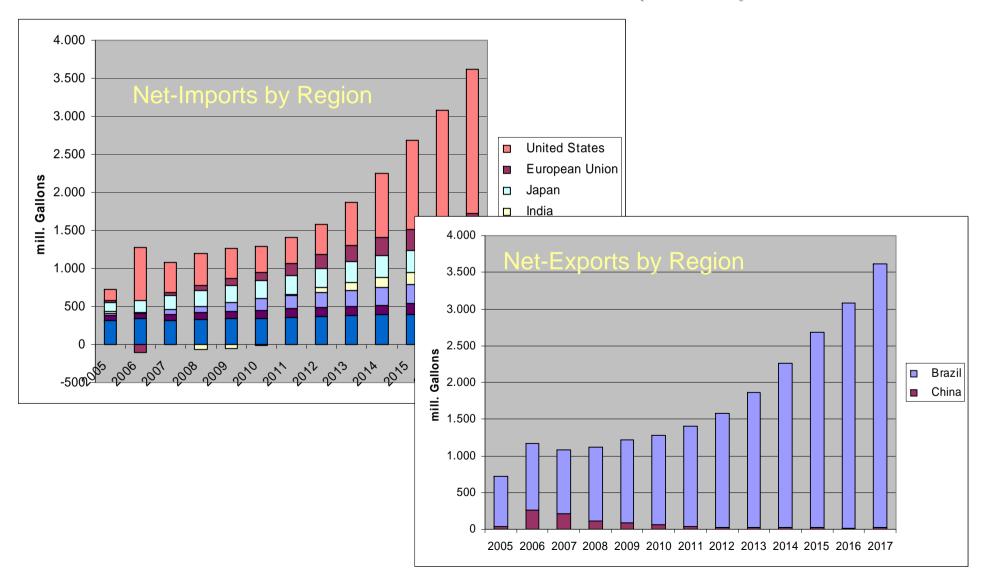


Exports by Region

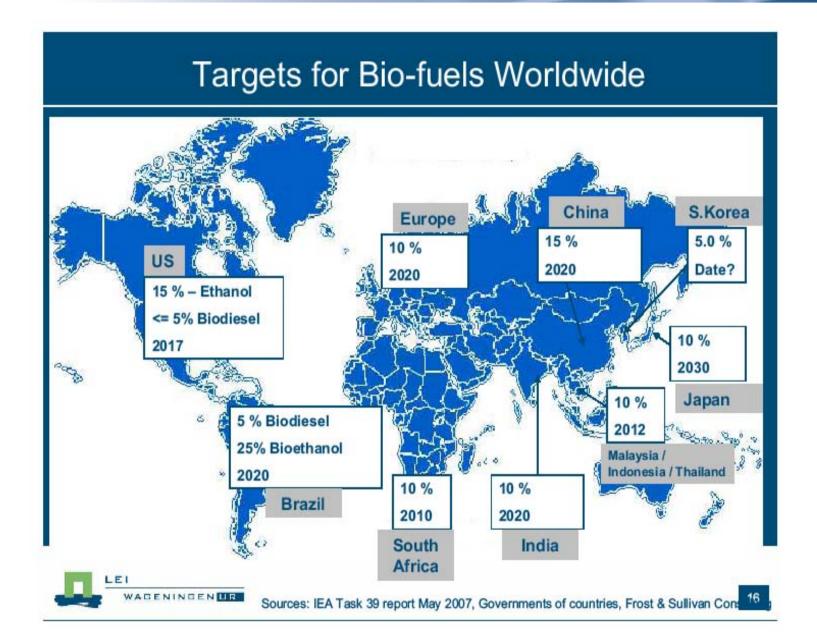




... and the forecast for the next decade (FAPRI)









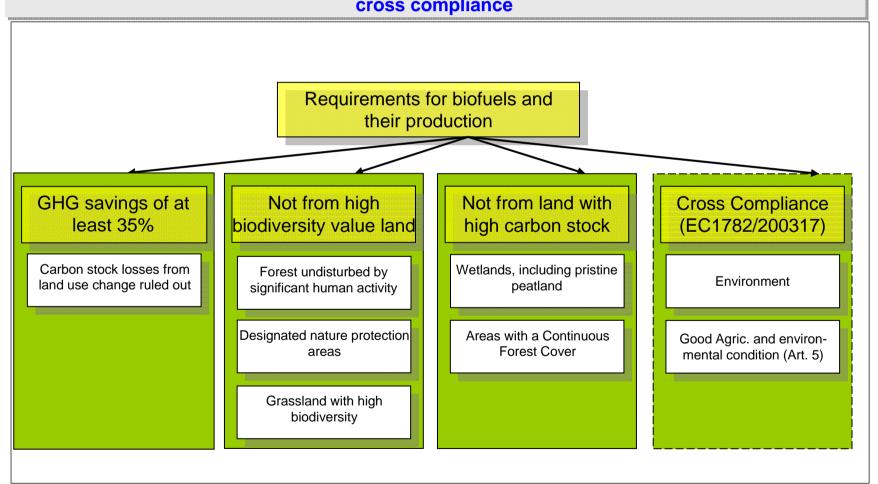
An internationally traded commodity such as bioethanol is homogeneous, i.e. it is not possible to judge the sustainability of a particular biofuel!

	Fuel Quality Directive	Renewable Energy Directive	Biomass sustaina- bilty decree
GHG savings	 10% GHG savings per unit of energy until 2020 (1% p.a. from 2011) opposed by EU-Parliament 	 Proof of minimum GHG savings: 35% is necessary for accounting towards biofuel targets 	 Proof of minimum GHG savings: 30%/ 40% from 2011 Otherwise no accounting on quota or tax reduction
Sustainable cultivation	– n.a.	 Production according to environmental criteria of Cross Compliance (EC 1782/2003) 	 Cross Compliance/ Good Agricultural Practices or similar regulations Otherwise compliance with certain regulation
Protection of natural habitats	– n.a.	 No feedstocks from high biodiversity land, wetlands, untouched peatland, continuously forested areas 	No cultivation in high nature value areas
Social sustainability	n.a. (is being asked for in current discussions)	n.a. (is being asked for in current discussions)	– n.a.



Certification Requirements:

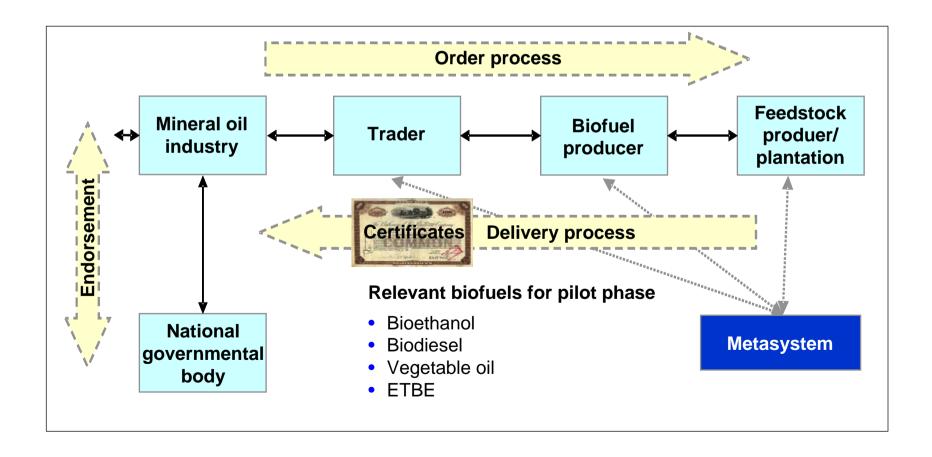
The EC proposal requires minimum GHG savings, the protection of certain land types and cross compliance





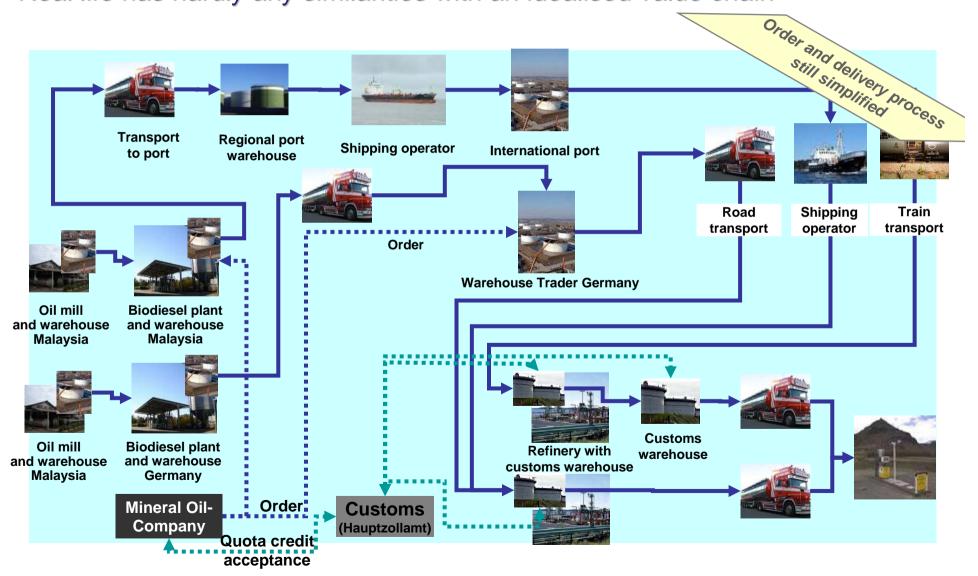
Certification of Biofuels in the Value Chain:

Biofuel value chain





Real life has hardly any similarities with an idealised value chain



The project is online: www.iscc-project.org



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HOME

SUSTAINABILITY

PROJECT

RESULTS

Our Objectives

Sustainable production of biofuels is important for economic and ecological reasons. We develop an international certification system to distinguish between sustainable and nonsustainable bio-energies.



CHALLENGE

Increasing production of bioenergies should never lead to unwanted change of land use.

» read more

→ CONCEPT

Certification to ensure ecological and social standards with production and conversion of biomass.

» read more

CERTIFICATION

Correction of market failures by challanging sustainable production and green house gas reduction.

» read more

→ BIOENERGIES

Sustainable production of bioenergies as well as of biomasses for conventional use.

» read more

ISCC-PROJECT

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Welcome to the ISCC Project

Due to the growing market relevance of biofuels and the increasing use of agricultural feedstock for their production, the discussion about sustainability has gained in importance.





