

Bioenergy – Sustainable Business?

Challenges and Perspectives

Uwe R. Fritsche

Coordinator, Energy & Climate Division

Öeko-Institut (Institute for applied Ecology), Darmstadt Office

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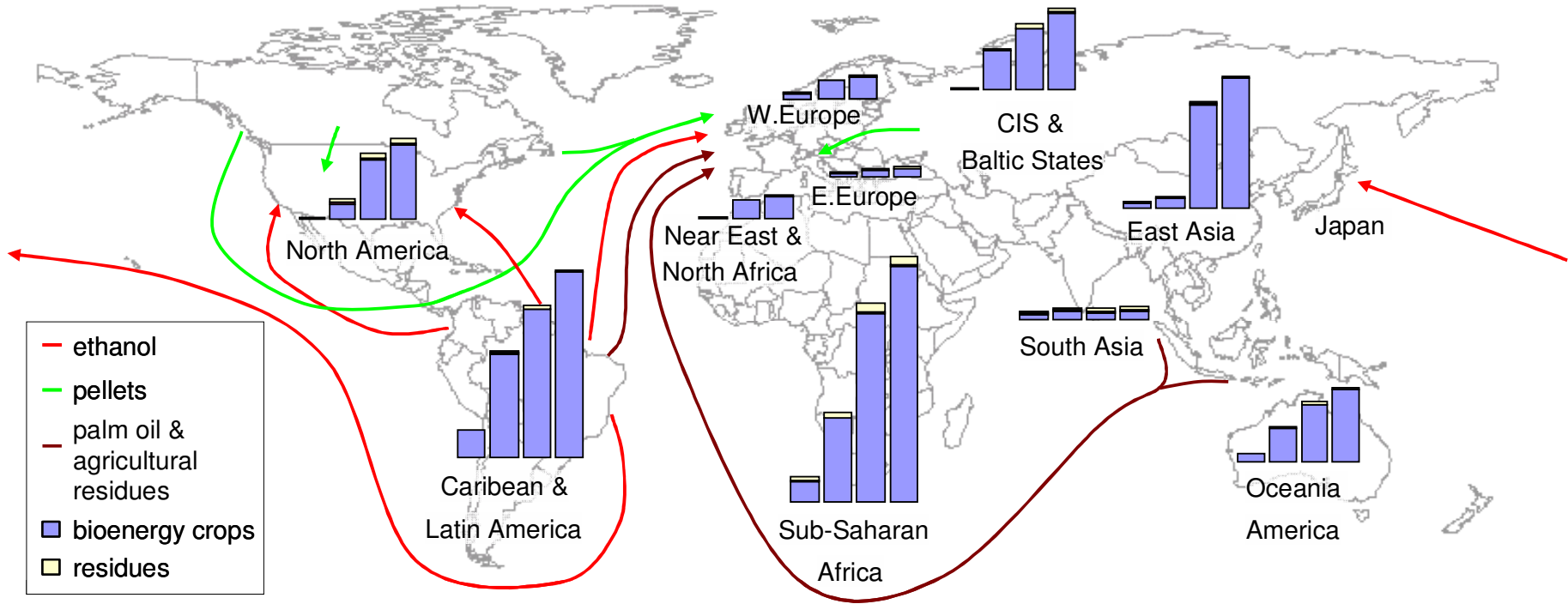
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- **Biofuels could have positive impacts:**
 - GHG reduction (through fossil-fuel substitution);
 - rural employment/income; more **agrobiodiversity**; soil carbon increase, less erosion ...
- **But impacts could also be negative:**
 - GHG from cultivation, soil carbon, indirect land use changes...
 - **Loss of biodiversity** from land-use changes (**leakage**), water use, agrochemicals, erosion...
 - Food price feedbacks

Biomass Trade Flows



Source: adapted from IEA (2007); more info on trade:

IEA Bioenergy Task 40 - Sustainable International Bioenergy Trade

www.bioenergytrade.org

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Which Standards?

Standard	Scope	Regional Adjustment	Time Horizon
Clarification of land ownership	regional/local	no	short-to-medium term
→ Avoiding negative impacts from bioenergy-driven changes in land use	global	no	short term
Priority for food supply and food security	regional/local	yes	medium-to-long term
No additional negative biodiversity impacts	regional/local	yes	medium-to-long term
→ Minimization of greenhouse gas emissions	global	no	short term
Minimization of soil erosion and degradation	regional/local	yes	short-to-medium term
Minimization of water use and avoidance of water contamination	regional/local	yes	short-to-medium term
Improvement of labor conditions and worker rights	regional/local	no	short term
Ensuring a share of proceeds	regional/local	no	short term
Avoiding human health impacts	regional/local	no	medium-to-long term

Land Use/Biodiversity + GHG reduction have global scope + global conventions → „WTO compatible“

→ EU and Germany currently implement these standards in mandatory certification schemes for biofuels

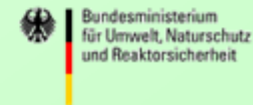
Informal Workshop Sustainability Requirements for Biofuels – German Perspectives

The German Biofuel Sustainability Ordinance (BSO): Key Issues

25.01.2008
Brussels



Kilian Delbrück
Section „Agriculture and Forestry“



Presentation and Background Papers:

www.oeko.de/service/bio/en/brussels.htm

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EU Policy and Targets for Biofuels,
25/01/08, Sustainable Biofuels Workshop, Brussels

EU Policy and Targets for Biofuels

Alexandra Langenheld
National Expert to the E.C.
DG Energy and Transport



Directorate General for Energy and Transport

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<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:52008PC0019:EN:NOT>

http://ec.europa.eu/energy/climate_actions/doc/2008_res_ia_annex_en.pdf

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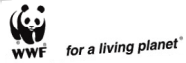
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International Actors

- GBEP – G8 +5 & more (**private sector?**)
 - Task Force on GHG (US-lead), Task Force on Sustainability ?
 - roadmap for G8 in JP (July); follow-up to G8-Heiligendamm?
- IDB Biofuels Working Group (in prep. – April?)
- RSB: Round Table on Sustainable Biofuels
- FAO: **BEFS** (food security) + **BIAS** (GHG + biodiversity)
- EEA: Bioenergy GHG methods, Workshop, June 10, Copenhagen
- EU: RES + FQ Directives; Germany: BSO; NL + UK...
- USA: inter-agency group on sustainability assurance system (DA, DOE, EPA, State Dep.)
- FAO, UNEP: **Sustainable Bioenergy Charter** (FAO Conference June 3-5, Rome)

Information & Contact

Sustainability Standards for Bioenergy



Sustainable Bioenergy Cropping Systems for the Mediterranean



2006

EUR

EEA Report | No. 7/2006

How much bioenergy can Europe produce without harming the environment?



www.oeko.de/service/bio/en/
contact: u.fritsche@oeko.de

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