

Sustainable Biofuels and Beyond: The Role of Europe

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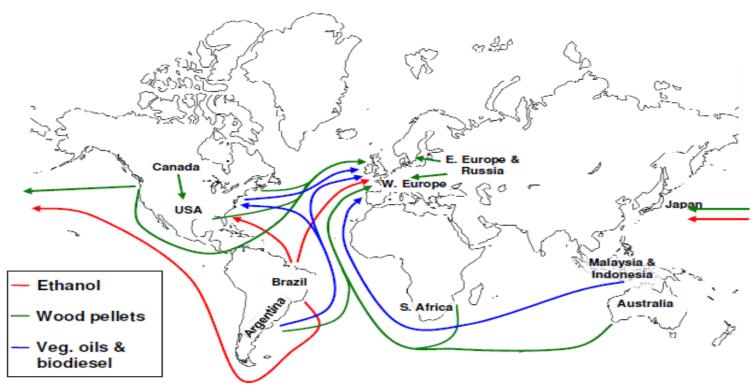
Bioenergy: EU and the world



- EU has significant domestic sustainable bioenergy potential, but costs are comparatively high
- Interest beyond biofuels: co-firing, biorefineries, biomaterials...
- Imports to EU-27 could increase but how much and from where?
 - CO₂ prices under ETS very low → interest for bioenergy imports reduced, but ETS back-loading under debate
 - If RED revised 5% cappronoise displaying fuels from edible feedstocks) refused imports might go wn also

Global bioenergy trade and EU





Source: IEA Bioenergy Task 40: data for 2010 - 2012











Sustainability Beyond Biofuels



- 2nd generation biofuels and biorefineries will use lignocellulose feedstocks: role of biomass from forests, and SRC (land use?)
- Advanced biomaterials + co-firing of bioenergy will increase
- Coherent sustainability requirements for all bioenergy (electricity, heat, transport) and biomaterials needed











A European Debate...



Sustainability Criteria and Indicators for Solid Bioenergy from Forests

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EU and Sustainable Bioenergy



- EU bioenergy "pull" requires sustainability of imports: RED extension (iLUC, C debt..) could provide safeguard against environmental risks, but lacks social criteria
- Developing countries need social safeguards: voluntary certification and criteria for project financing (EIB, GEF, World Bank...)
- EU reporting on RED: base for bi- and mult-ilateral agreements?











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