



FORESTS & BIOENERGY

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OVERVIEW

- Definitions
- Background
- Wood fuel production and consumption
- Opportunities and Challenges
- Conclusions



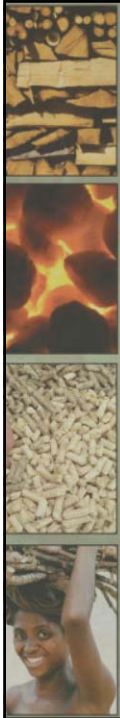
DEFINITIONS

Biofuels

Agro, Wood,
Municipal Waste

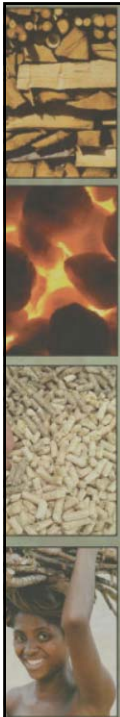
Woodfuels

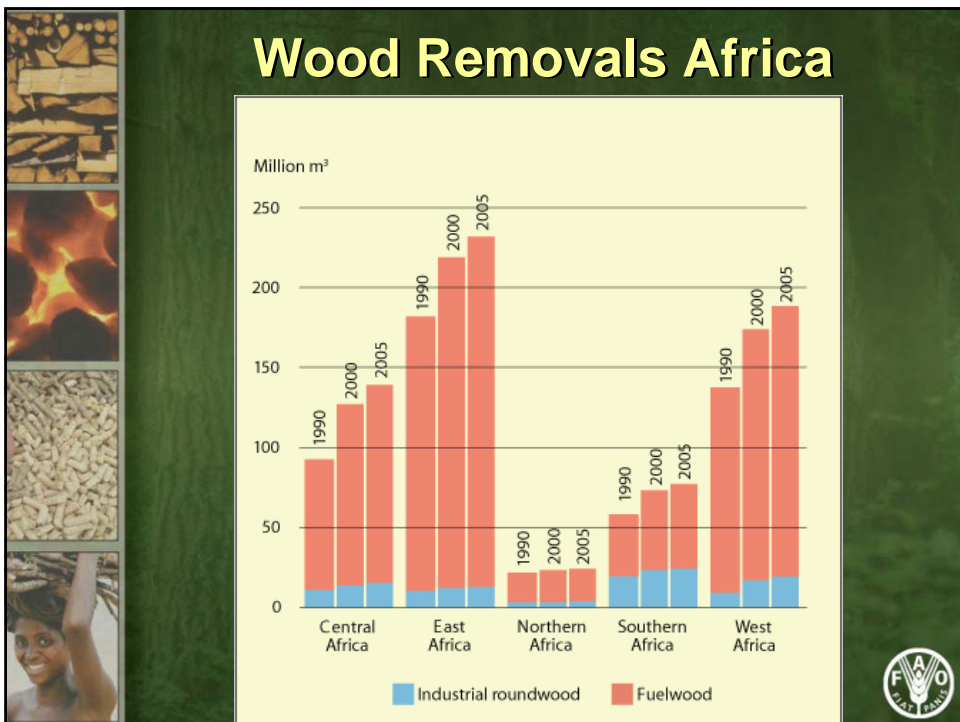
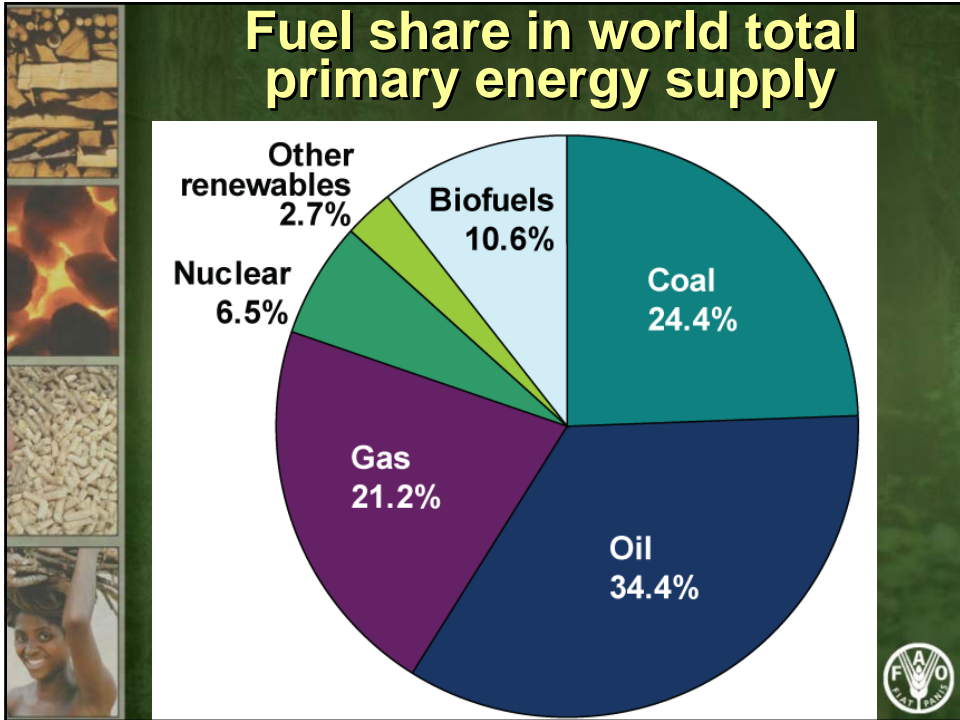
- Fuelwood
- Charcoal
- Black Liquor
- Others

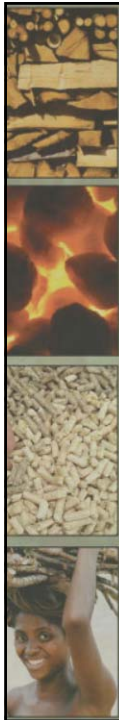


BACKGROUND

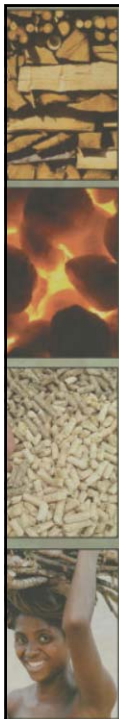
- Wood oldest fuel
- In many countries still most important energy carrier
- Often unsustainable, inefficient, unhealthy



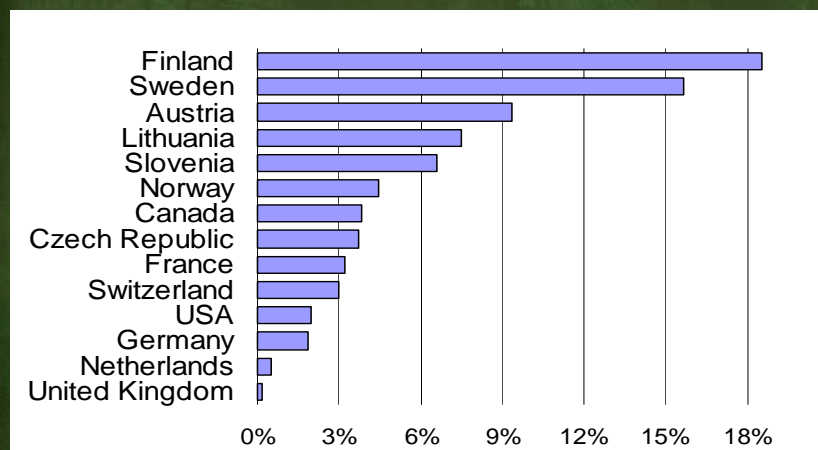


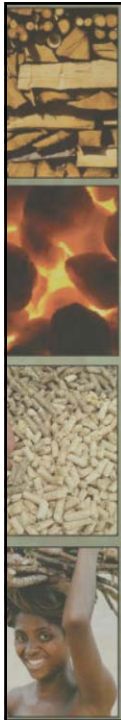


Wood Removals Europe

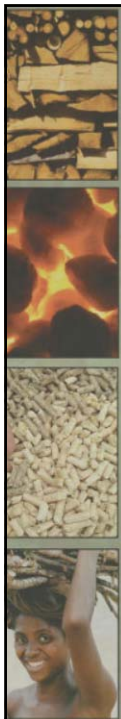
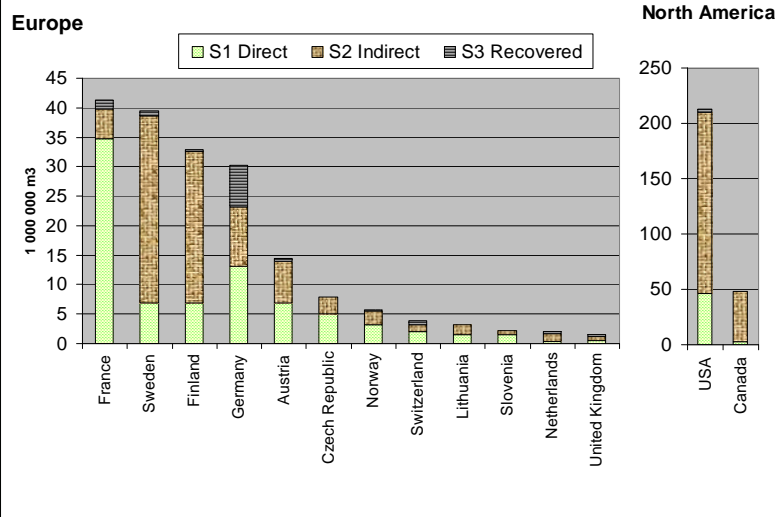


Role of wood energy in Total Primary Energy Supply

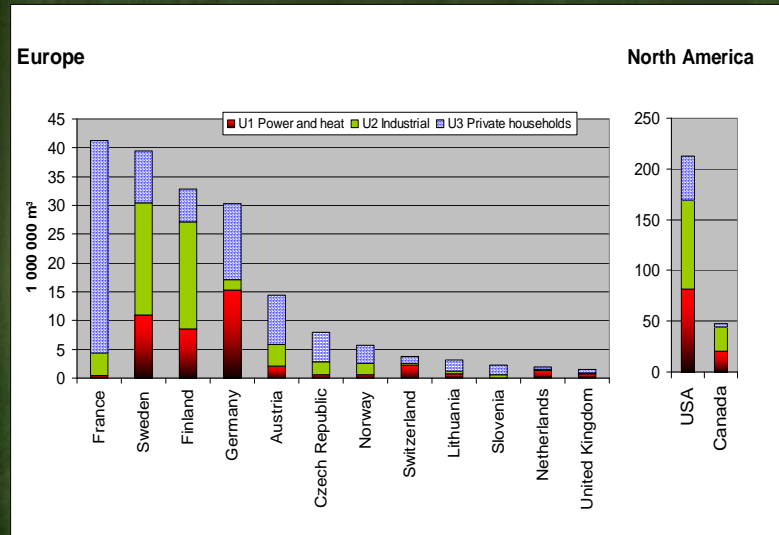


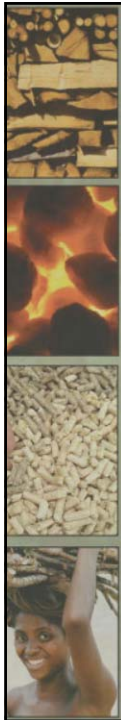


Wood Fuels Used



Wood Fuel Users





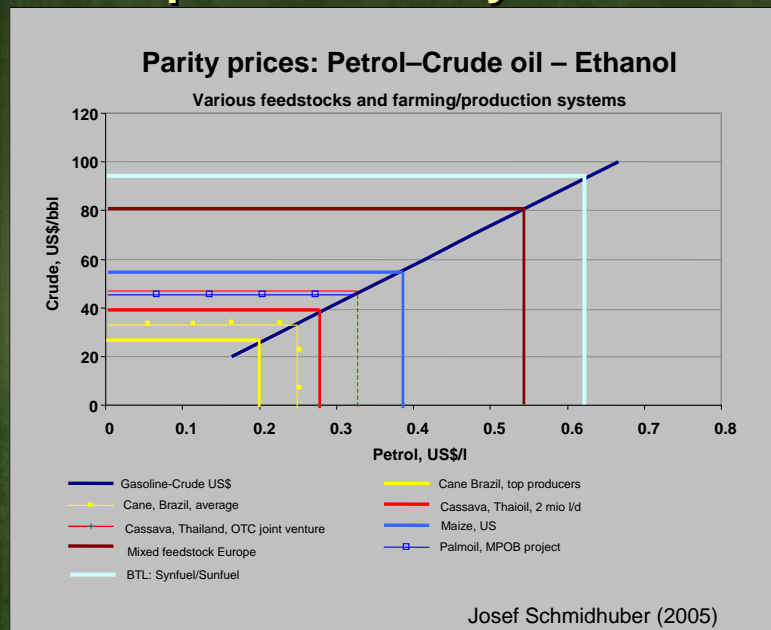
What is new?

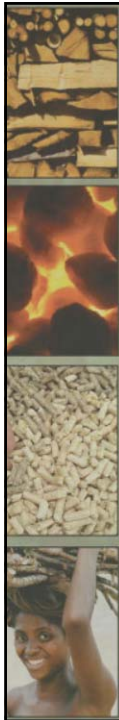
- Climate change
- Rising fossil fuel prices
- Energy security
- Increased demand for wood as fuel
- Increased demand for liquid biofuels



The competitiveness

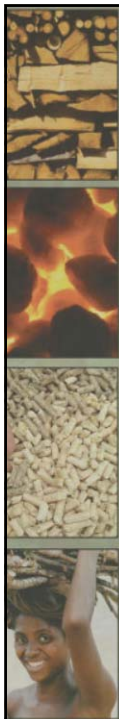
Competitiveness by feedstock





Opportunities

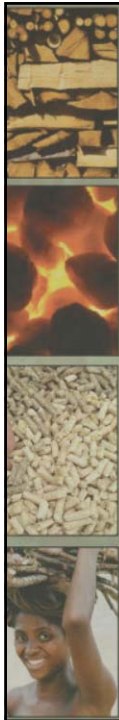
- Additional value for forests & trees
- Harvesting and processing residues
- Additional income for smallholders
- Rural development
- Fossil fuel substitution reduces ghg accumulation in atmosphere
- Research in second generation fuels



Challenges

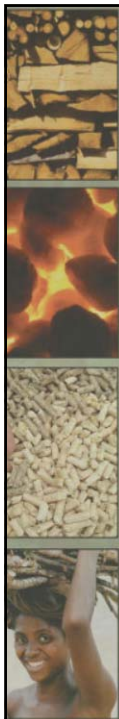
- Inefficient, unhealthy and unsustainable use
- Forest degradation
- Deforestation and forest conversion
- Competition with forest products industry





Key Issues

- Fossil fuel substitute
- Sustainability of resource
- Efficiency, safety of use
- Lack of information
- Competition for land
- Competition with forest industries



Key Issues

- Overall energy efficiency needed
- More post-consumer wood
- More residues, wood outside forests
- Short rotation plantations
- Biofuel incentives should not distort markets
- Holistic & integrated approach



THANK YOU

