Wood energy workshop
Belgrade, 26./27 November 2007

Wood energy energy
markets and trade in Europe

by

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Energy 2005
Gross inland consumption (EU 25)

- 6,5% renewables
- 17,4% coal, peat & lignite
- 14,4% nuclear
- 24,5% natural gas
- 37,2% crude oil

Renewable Energy Sources 2005 (EU 25)

6.5% renewables

- Solar: 0.7%
- Wind power: 5.5%
- Geothermal: 5.5%
- Hydraulic power: 22.2%
- Woody Biomass: 53.7%
- Other Biomass: 12.4%

Wood: No 1 Renewable energy source

Source: EurObserv'ER (modified)
Wood energy's role


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Sources of wood energy

'Seurope'
Sources for wood fuel

- S1 Direct
- S2 Indirect
- S3 Recovered

n.b.: 'Europe' (12 countries JWEE)


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Sources of wood energy


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User of wood energy

'Europe'
User wood energy

n.b.: ‘Europe‘ (12 countries JWEE)


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User of wood energy


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Energy use vs. material use - today

Wood removals 2005 from forest and woody biomass outside forests

- For energy use: 29%
- For material use: 71%

Wood co-products, residues & recovered wood

- For energy use: 38%
- For material use: 62%

Total supply

- For energy use: 42%
- For material use: 58%

Source: UNECE / Hamburg University (2007)
Energy use vs. material use – tomorro ???


Source: UNECE / Hamburg University (2007)
Projecting future energy use of wood fibres

Source: UNECE / Hamburg University (2007)

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Welcome to this year update of the Bioenergy International PelletsMap. It has been an exciting and a little troublesome work to produce the map also this year. Information have been collected through lots of sources. Direct personal contacts as well as through associations and suppliers of equipment. We want to say clearly, this is not the complete picture. All information is not double-checked - it's impossible.

But any how, the PelletsMap give an idea of the fast growing business. We have chosen not to include small plants. We have also included an overview of North America.

Please remember to use the information carefully. We thank Patrik Strom for his excellent work to gather all the information and ... by the way ... this year we have listed 256 plants, last year there were 248.

Patrik Strom

Source: Bioenergy International (No. 4 2007)

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Cross border trade of pellets in the Central European Countries (2005)


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Biomass Trade


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Conclusions:

✓ Wood energy № 1 renewable energy source in EU
✓ Energy use of wood fibres will increase in future
✓ EU energy policies might increase wood fibres import
✓ Highest market potentials for wood pellets and briquetts
✓ Global trade of processed wood fuel trade will increase
✓ Urgent need for improved data quality on wood energy
International wood energy trade:

Domestic or imported?

Major wood fuel importer

Major wood fuel exporter

Markets

Task 39 / 40

Optimized energy density per volume

Pellets / chips
Thank you for your attention!

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