



European Commission Meeting

IEA/UNECE/FAO/EC Joint Wood Energy Enquiry

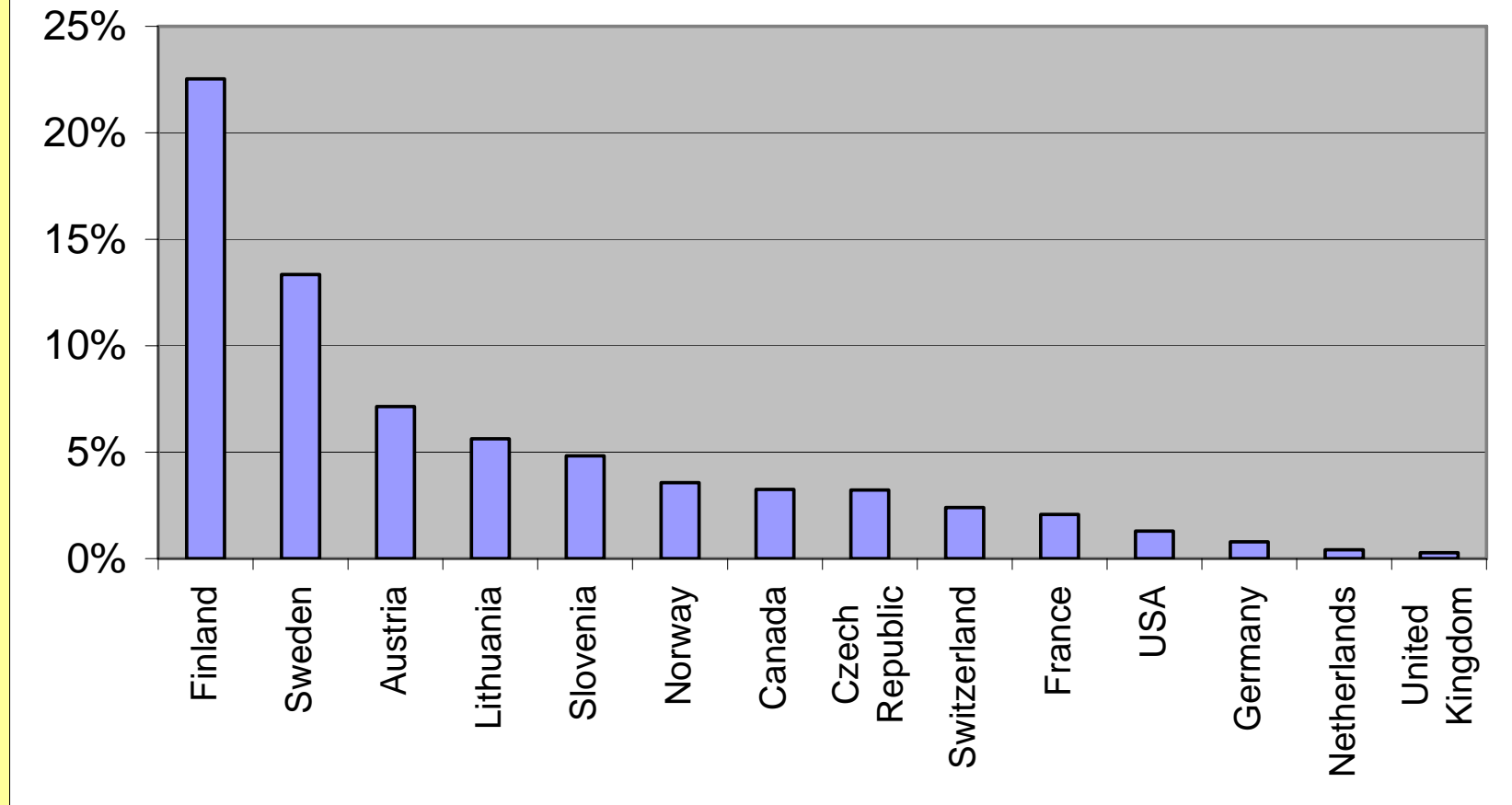
by

Kit Prins and Florian Steierer

Brussels, 06 December 2006

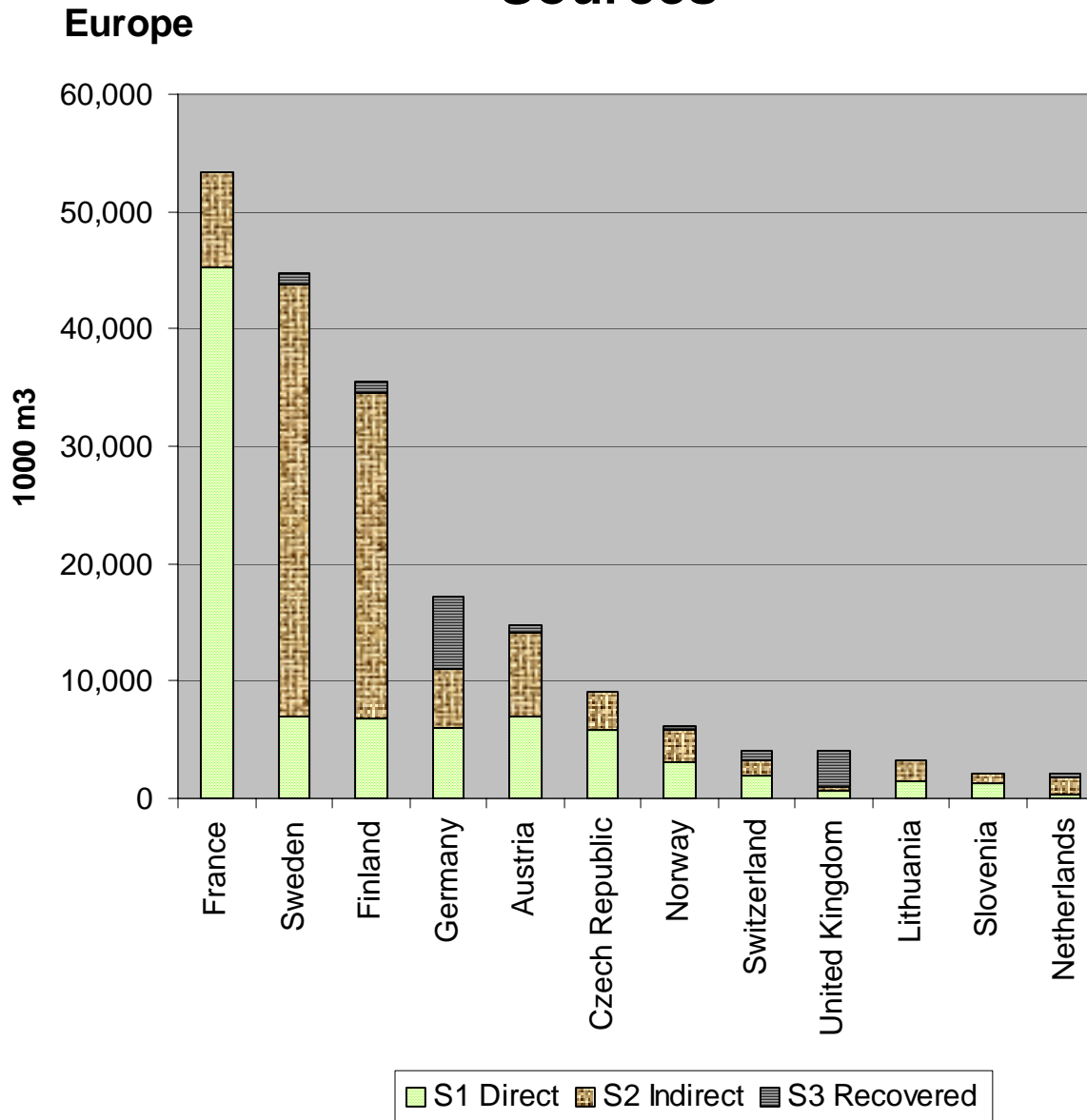


Wood energy's role for the national energy supply

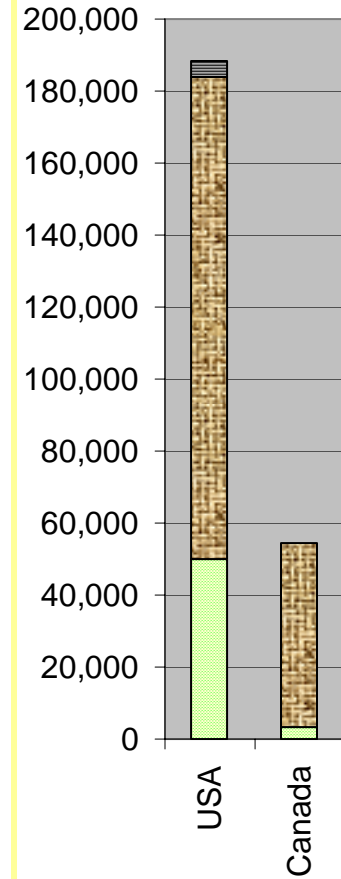




Sources



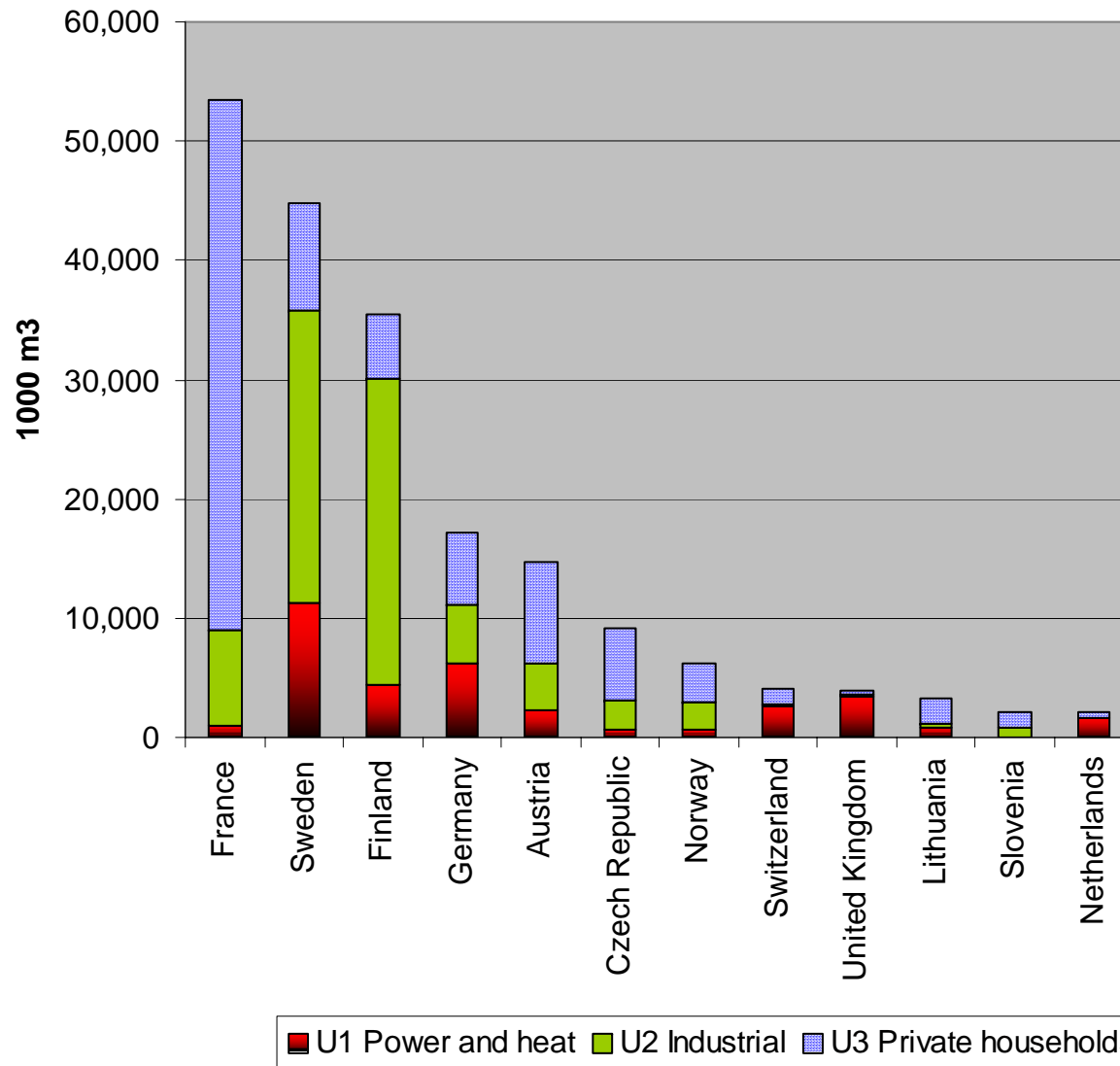
Northern America



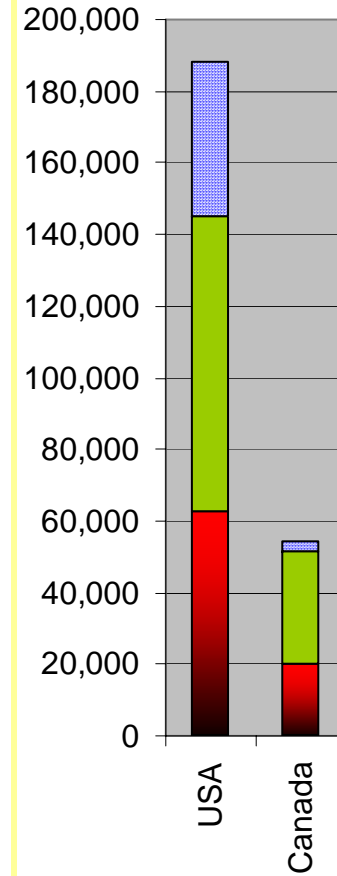


USER

Europe

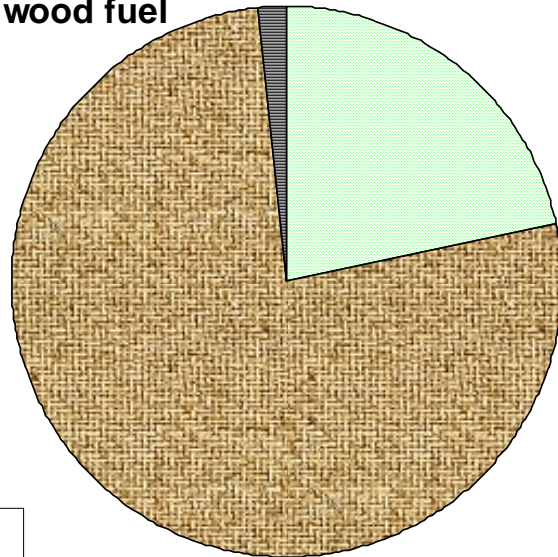


Northern America



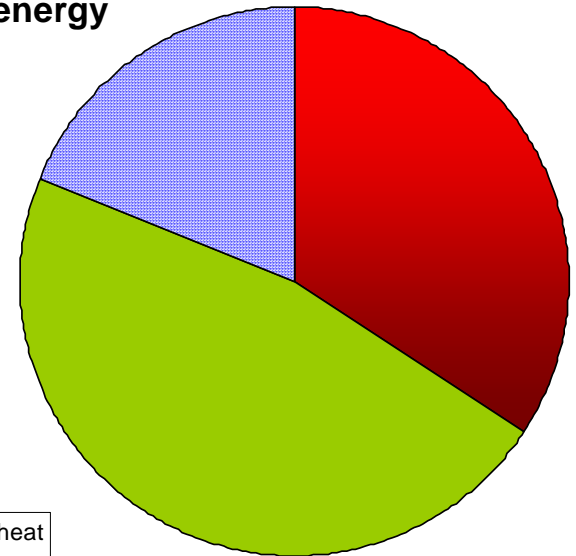
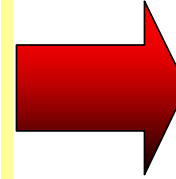


'Northern America' Sources for wood fuel



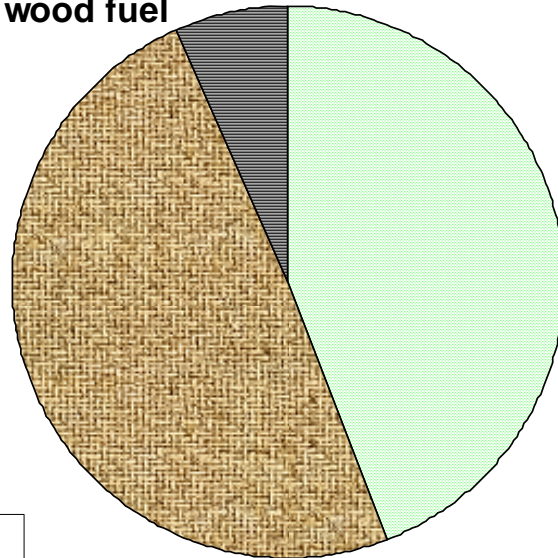
- S1 Direct
- S2 Indirect
- S3 Recovered

'Northern America' User wood energy



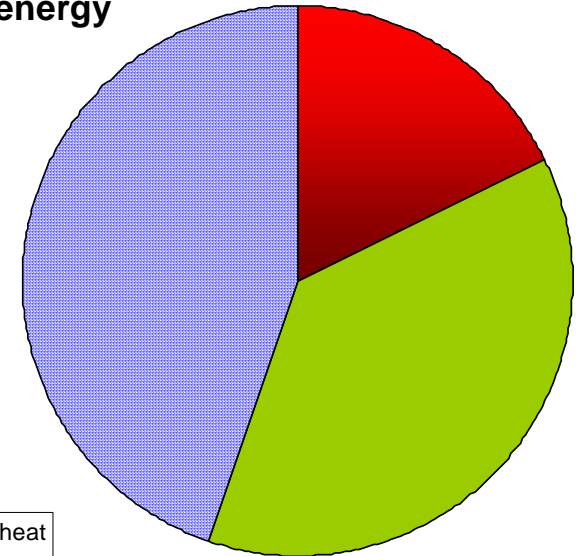
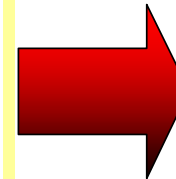
- U1 power and heat
- U2 Industry
- U3 Private

'Europe' Sources for wood fuel



- S1 Direct
- S2 Indirect
- S3 Recovered

'Europe' User wood energy



- U1 power and heat
- U2 Industry
- U3 Private



Conclusions I:

- Weaknesses in data but best data at the moment. There is a considerable potential for improvement.
- Volumes estimated are considerably more than previously believed.
- Recovered wood is now making a major contribution to energy supply in some countries.



Conclusions II:

- Wood energy is already contributing to the diversity of energy supply in many countries. Over five percent of national energy supply in five European countries. In Finland 22%.
- Wood is at present with 64% the dominant component of the IEA category “renewables and waste” in Europe 12.
- In volume terms, and including all types of wood and wood products, energy is, by far, the largest end use of wood.



Conclusions III

- It is safe to assume that in most advanced countries there are not many opportunities to increase the energy use of residues of the forest products industry.
- There are also clear technical limits on the use of recovered wood, although it is not yet clear how much this sector can expand.



Conclusions IV:

- Significant expansion of wood energy supply to meet ambitious biomass energy targets may be focused on direct energy. This could take the form either of mobilizing a greater share of the existing resources and/or extending the forest area (for instance for energy plantations).
- Although not analyzed here, there are probably significant opportunities for energy efficiency, alongside expanding supply.



Recommendations I:

- Circulate national data for review and checking.
- Review the draft report in many fora and suggest improvements for data quality, data gathering and raising resources.
- All countries should make the necessary institutional arrangements and allocate the necessary resources to provide the necessary data in future.



Recommendations II:

- A second study, along the same lines.
- Need resources and commitments from active partners, all interested parties are invited to contribute to the work.
- Communicate to other interested bodies.
- The data generated should be made available to researchers, presumably through a website.



Recommendations III:

- Countries should explore the real significance of post-consumer recovered wood in their forest sector and their energy supply patterns.



Thank you for your attention

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