

Joint Wood Energy Enquiry 2013

38th session of the Joint ECE/FAO Working Party on
Forest Statistics, Economics and Management

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March 23 - 24, 2016



Food and Agriculture
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Content

- Cross-sectoral cooperation & communication
 - Technical cooperation agencies (More heat with less wood)
 - Energy sector (IRENA, IEA, GERES)
- Market Analysis
 - FPAMR chapter 9
- Data collection
 - JWEE2013
- Team of specialists on wood energy
- Film

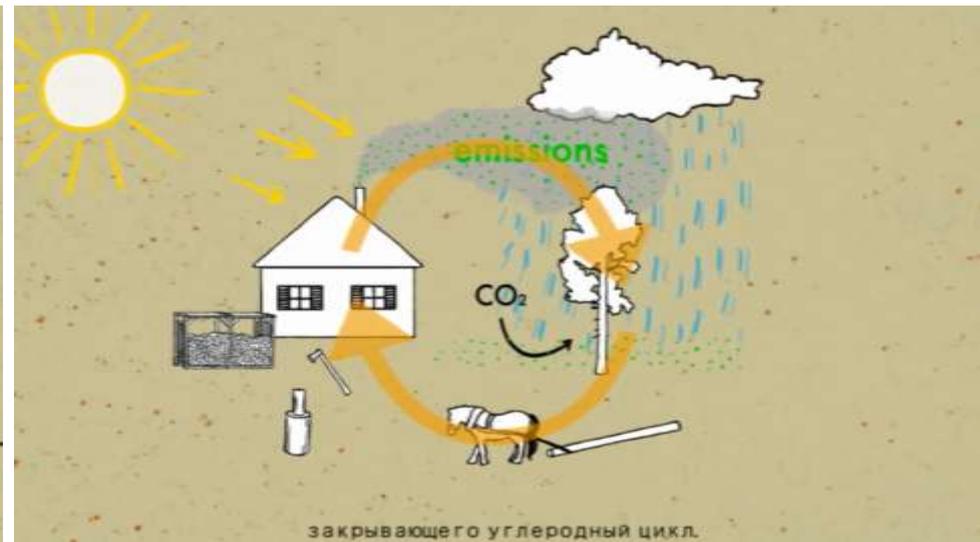




More heat with less wood



More heat with less wood





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More heat with less wood

3. Oxidation

More heat with less wood



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Produced by

the Joint UNECE/FAO Forestry and Timber Section

in cooperation with



C.A.R.M.E.N.



Bern University
of Applied Sciences



Fachagentur Nachhaltende Rohstoffe a.V.

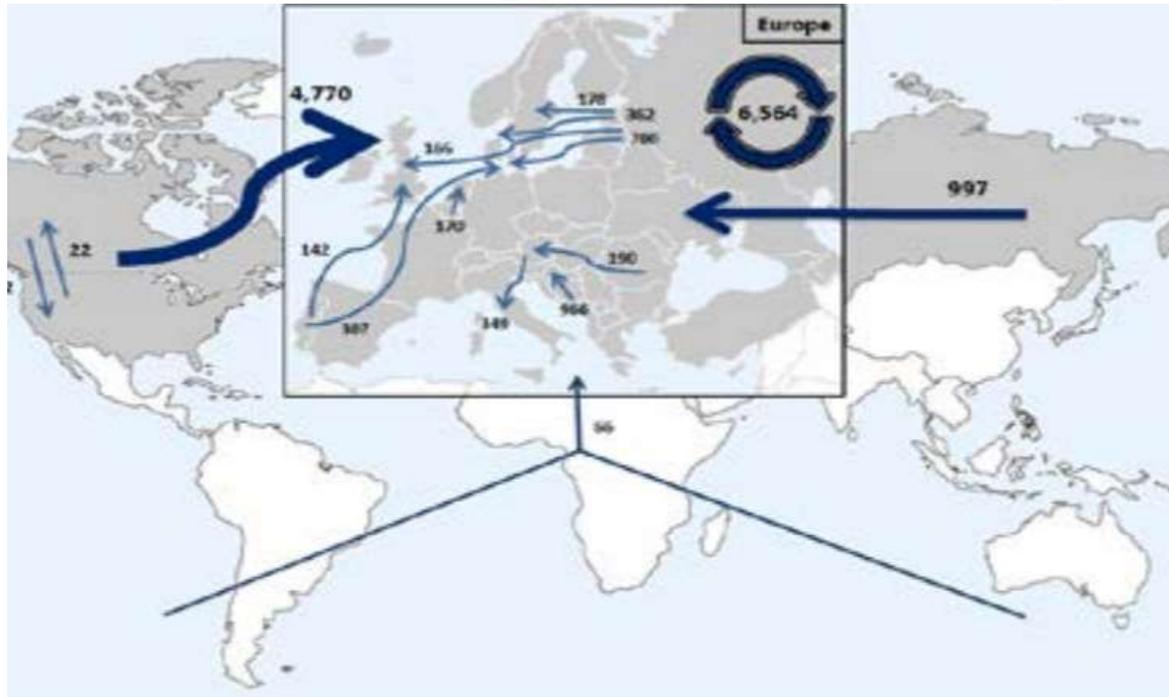
с каким уровнем влажности использовать.

закрывающего углеродный цикл.

Cross-sectoral cooperation & communication

- IEA International Energy Statistics meeting (InterEnerStat), 14-15 September 2015, Paris, France (topic: “*sharing experience on HS review*”) – follow-up with UNSD for improving International Recommendations for Energy Statistics – wood energy
- IRENA - Expert Consultation on Best Practices in Bioenergy Data Collection 28-30 April 2015, IRENA Headquarters, Masdar City, Abu Dhabi, United Arab Emirates (topic: “*The Joint Wood Energy Enquiry: Structure, challenges and results*”)
- 2nd session of the UNECE Group of Experts on Renewable Energy (12 - 13 October 2015), Geneva, Switzerland (topics: “*More heat with less wood*” & “*JWEE2013*”)

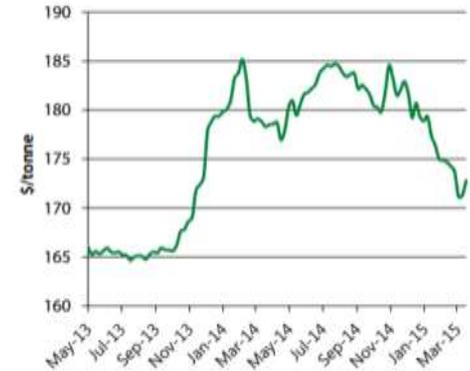
Wood energy market analysis



lights major trade flows.

GRAPH 9.2.2

Wood pellet prices at Amsterdam, Rotterdam and Antwerp, May 2013- March 2015



Note: Spot CIF prices within 90 days.

Source: Argus Biomass, 2015.

FIGURE 9.2.2

Location and capacity of wood pellet manufacturers in the western Balkans, 2013

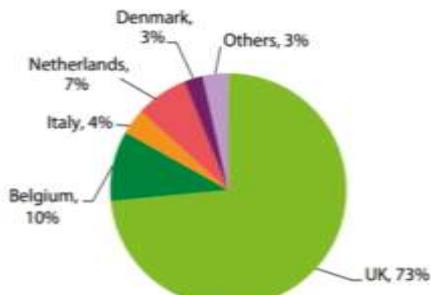


Notes: ALB = Albania; BH = Bosnia and Herzegovina; HRV = Croatia; MKD = The former Yugoslav Republic of Macedonia; MNE = Montenegro; and SVN = Slovenia.

Source: Glavonjic, 2015.

GRAPH 9.4.3

Top five export partners with the US (by percentage of trade value) for wood pellets, 2014, as reported by the US



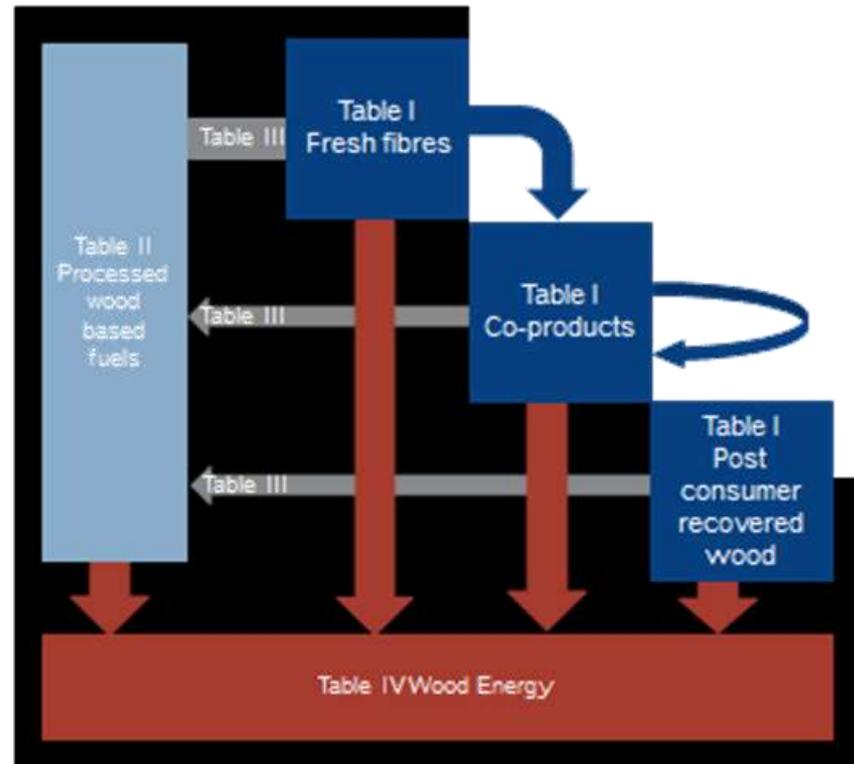


Outline

- Joint Wood Energy Enquiry (JWEE)
- Response rate
- Results of the 2013 reporting
- Time series 2007-2013
- Challenges for future reporting rounds



Joint Wood Energy Enquiry (JWEE)





Response rate

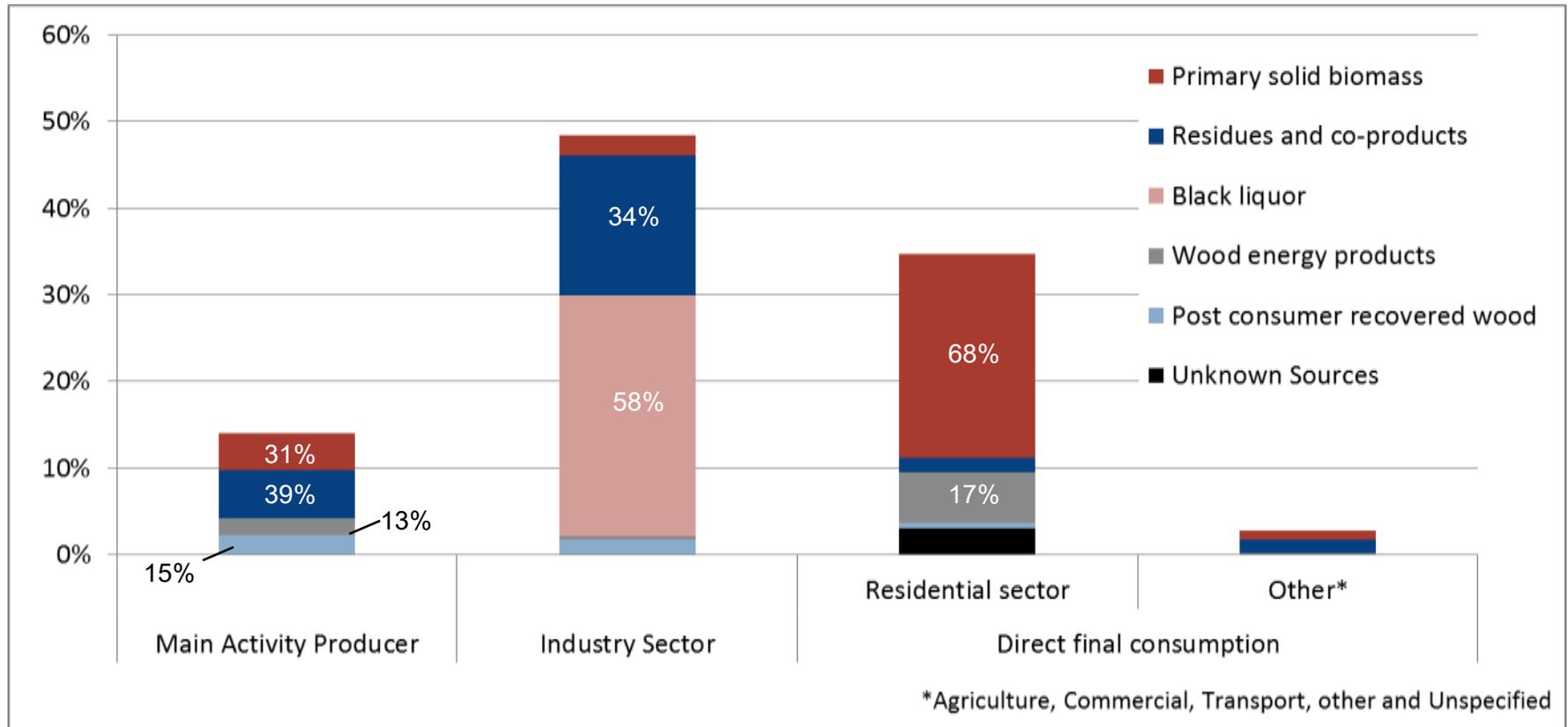


Main 2013 findings at a glance 27 countries replied

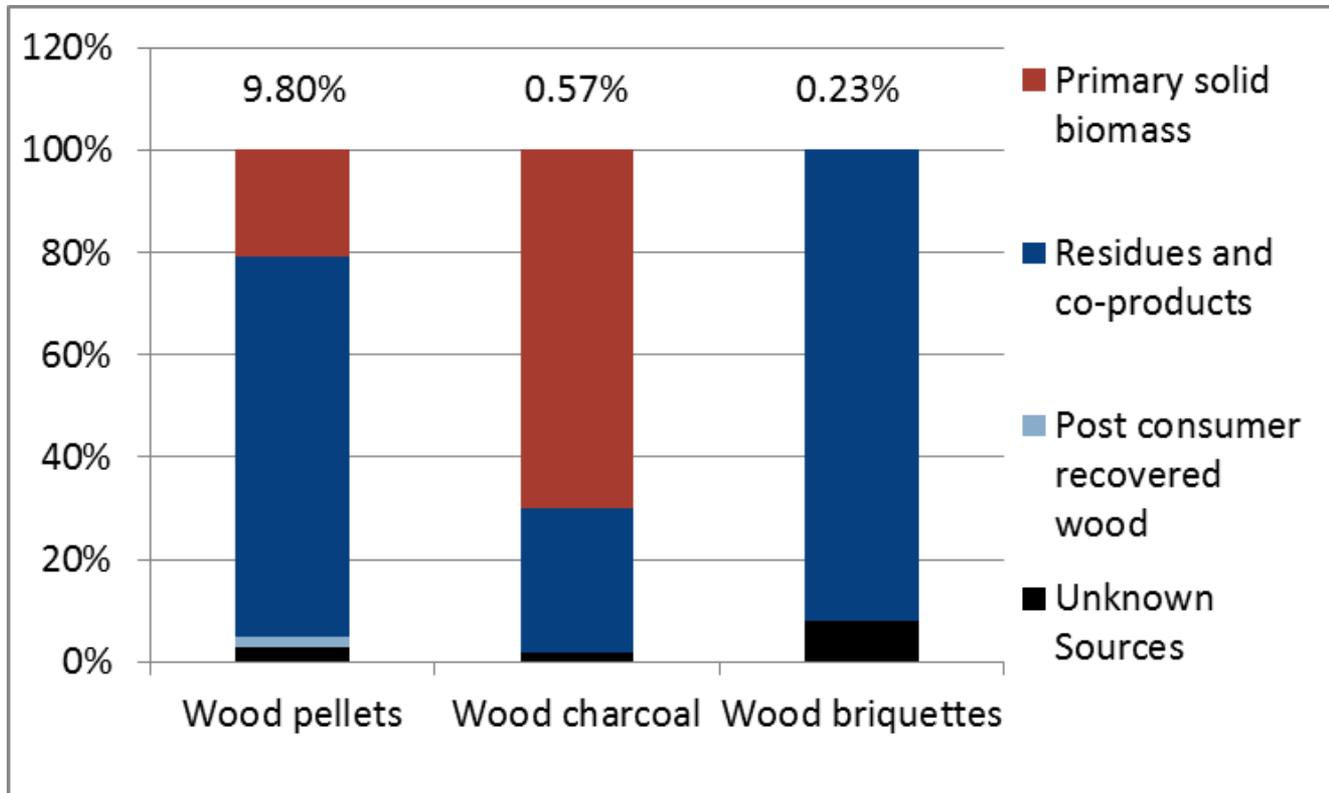
- Total wood energy consumption: 581,422,265 m³
- Share of wood energy in TPES: 3.5%
- Share of wood energy in RES: 37.5%



Results: Use of wood energy



Results: Source for wood energy products*



* Reporting countries: Bosnia and Herzegovina, Canada, Croatia, Cyprus, Finland, France, Ireland, Netherlands, Serbia, Slovenia, Switzerland and the United Kingdom





Trend 2007-2013

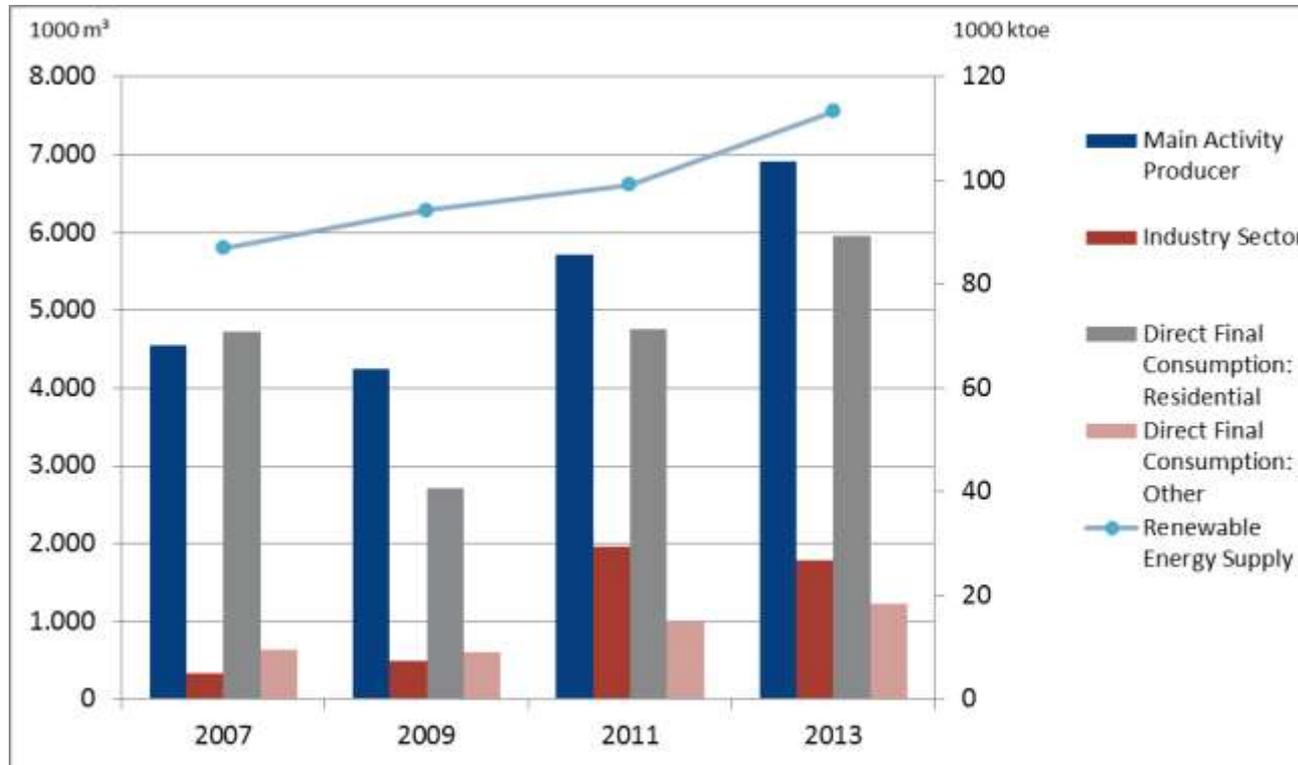


Countries:

1. Austria
2. Cyprus
3. Finland
4. France
5. Germany
6. Ireland
7. Luxembourg
8. Serbia
9. Slovenia
10. Sweden
11. Switzerland
12. United Kingdom



Results: Pellet trend



Reporting countries: Austria, Cyprus, Finland, France, Germany, Ireland, Luxembourg, Serbia, Slovenia, Sweden, Switzerland and the United Kingdom





Challenges to be addressed

- Data gaps in time series should be addressed
- Conversion factors
 - No changes over the years allowed
 - Calculation of conversion factors needs to be revised
- Reach out to other organizations to avoid doubling the correspondents' work
- The level of detail is high which might decrease the response rate
- Size of the collect sheet is too big
- In the collect sheet Table 3 (sources of wood energy products) should be included



Next steps to improve the JWEE

- ToS on wood energy (June 2016)
 - Improve the users manual
 - Improve the JWEE questionnaire

- Capacity building workshop
 - Maintain contacts of the reporting member States
 - Build capacities in the eastern part of the UNECE region



Team of Specialists on Wood Energy

- Since the second ToS meeting held in March 2015 in Vienna, Austria, focused on:
 - Joint Wood Energy Enquiry results and methodology
 - Discussion on the content of the possible publication on wood energy
- 1) The ToS has supported the review of the data quality for JWEE13
- 2) The secretariat with support of a consultant convened a taskforce to work on wood energy publication.
- 3) The secretariat has initiated work on the next team meeting scheduled for June 2016



Taskforce on Wood Energy Publication - aim

- Describe the structure and outline content of *UNECE first publication on the role of wood energy in the UNECE region*.
- The publication should be an instrument to effectively communicate the relevance of wood energy bridging the forest and energy sectors.





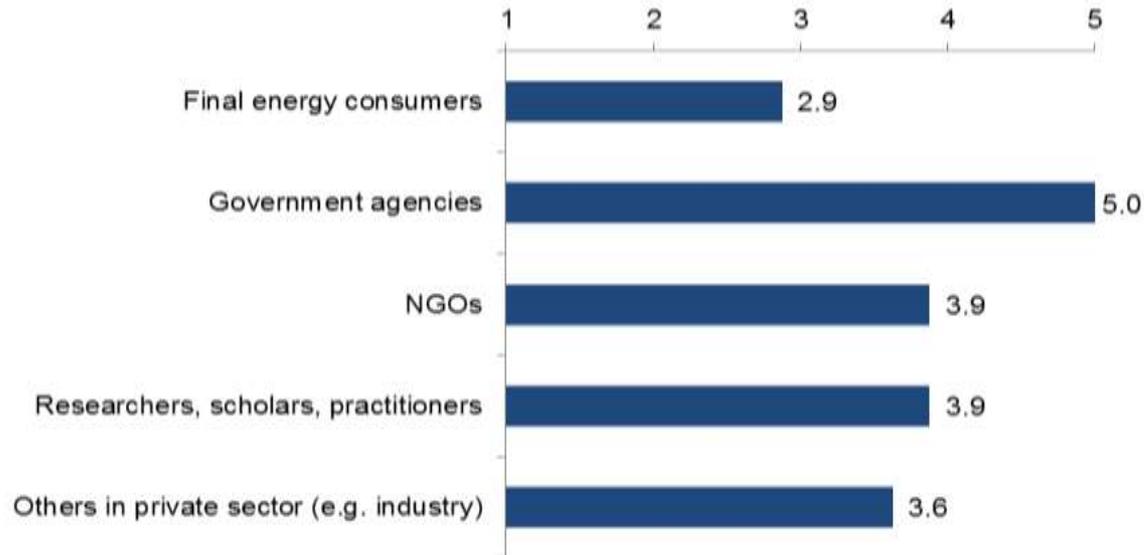
Taskforce members

- Branko Glavonjic (Belgrade State University),
- Dinko Vusić (University of Zagreb),
- Fanny Langué (European Biomass Association),
- Florian Kraxner (International Institute for Applied Systems Analysis, Ecosystems Services and Management Program),
- Francisco Aguilar (University of Missouri)
- Holger Weimar (Thünen Institute of International Forestry and Forest Economics),
- Isabelle Brose (European Confederation of Woodworking Industries),
- Jeremy Wall (European Commission),
- Karen Abt (US Forest Service),
- Kasimir Nemestothy (Austrian Chamber of Agriculture),
- Matthias Dees (University of Freiburg),
- Richard Vlosky (Louisiana State University),
- Surendra Joshi (Swedish Forestry Agency),
- Warren Mabee (Queens University)



Publication audience – taskforce survey results

Wood energy is the dominant form of renewable energy across the UNECE region. Yet, in many member nations this is not known nor the capacity of woody resources to be a renewable energy source. In your opinion, how would you rate the groups listed below as key target audiences for a publication describing wood energy markets in the UNECE region to address some of these issues?



1= 'Not very important', 3= 'Moderately important', 5= 'Extremely important'



Publication objectives

- a) Periodically summarize and update ‘state-of-knowledge’ regarding wood energy markets in Europe, CIS and North America
- b) Showcase Joint Wood Energy Enquiry (JWEE) as a collective regional effort to address challenges and provide best-available information.
- c) Inform decision makers of the role that wood energy can play in various sectors to support environmental protection, energy, economic development, climate change strategies/activities.



Publication layout

1. Introduction: The multiple functions of wood energy
2. Development of the JWEE and regional statistics
3. JWEE country profiles
4. Wood energy fuels
5. Public Policy instruments supporting sustainable wood energy
6. Outlook to future wood energy markets



Publication layout cont.

Case studies

- i. JWEE data and developments: Challenges to and advances in gathering data capturing the multiple dimensions encompassing wood energy.
- ii. Ensuring sustainable levels of wood biomass removals.
- iii. Effective policy tools for the power-and-heat and residential sectors



Next ToS meeting – 14 -16 June 2016

- In Zagreb at the invitation of the government of Croatia
- Agenda will include:
 - Presentation of the results of the JWEE2013
 - Proposals for revision of JWEE
 - Work on the publication – content of chapters, plan of work, possible authors and funding etc.



Thank you

You will find more information on wood energy on:

www.unece.org/wood-energy

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Item 5a Wood energy - questions

Secretariat paper 5a Paragraph 54. The Working Party is invited to:

- a) Comment on the results of the JWEE 2013;
- b) Approve the next round of the questionnaire (JWEE 2015) to be issued in Autumn 2016 and provide suggestions for improvements to both the process and the questionnaire;
- c) Provide guidance on the planned publication on wood energy.

Team of Specialists on Wood Energy- report

- a) Resources for the publication

