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UNECE/FAO Joint Wood Energy Enquiry

David Ellul, UNECE/FAO Forestry and Timber Section



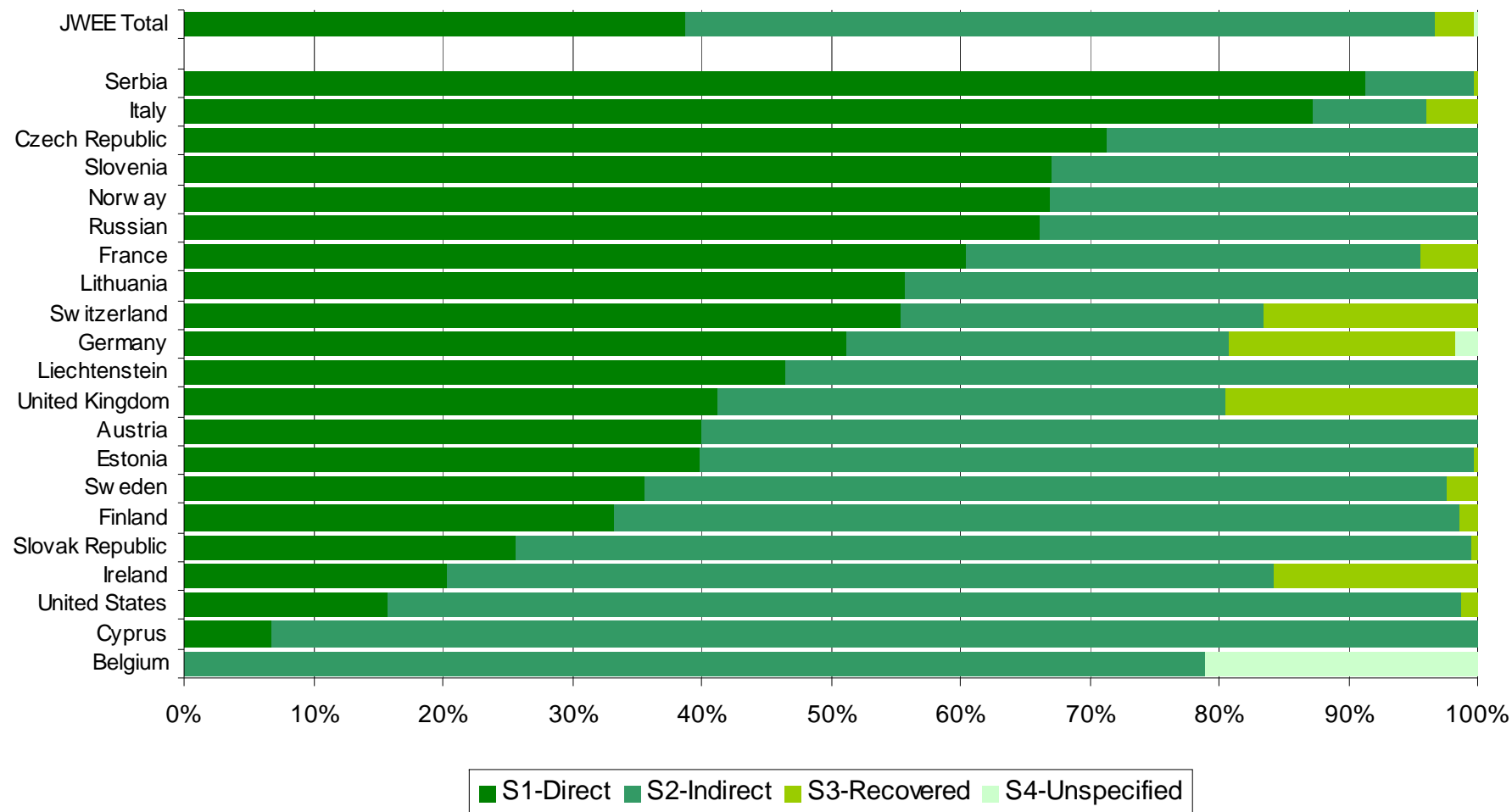
2009 Replies



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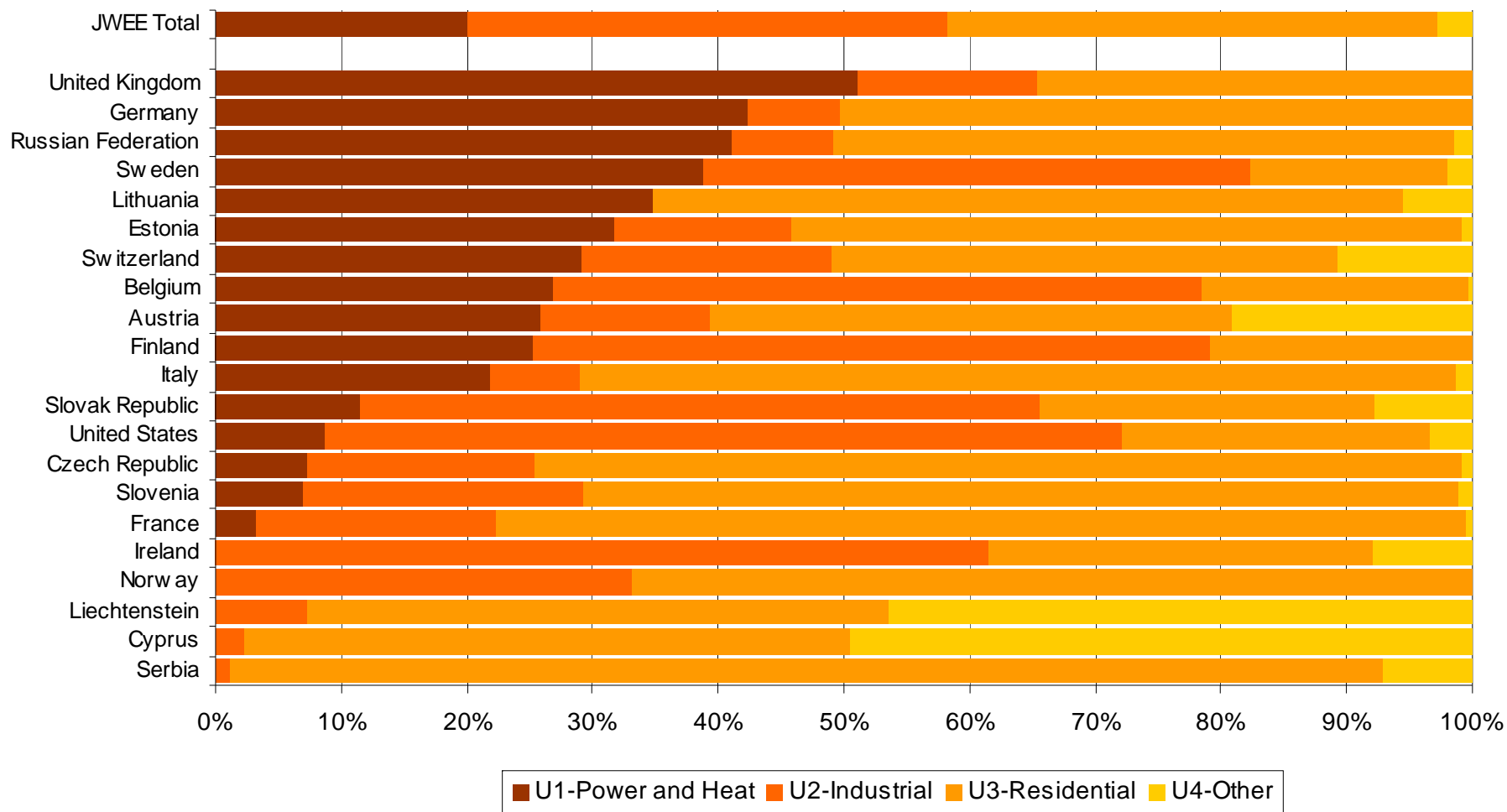
Wood energy sources by country (2009)



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Wood energy uses by country (2009)

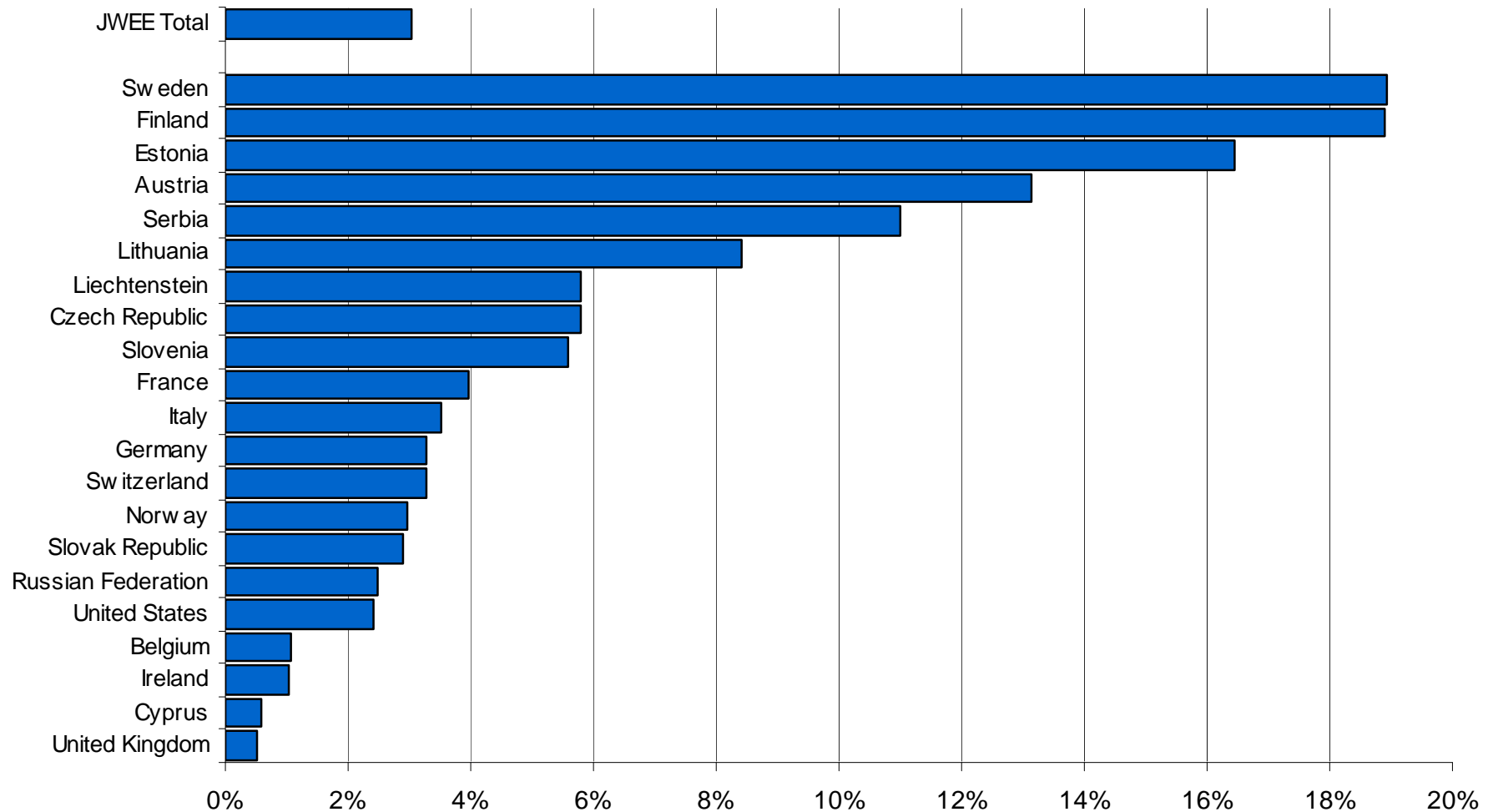


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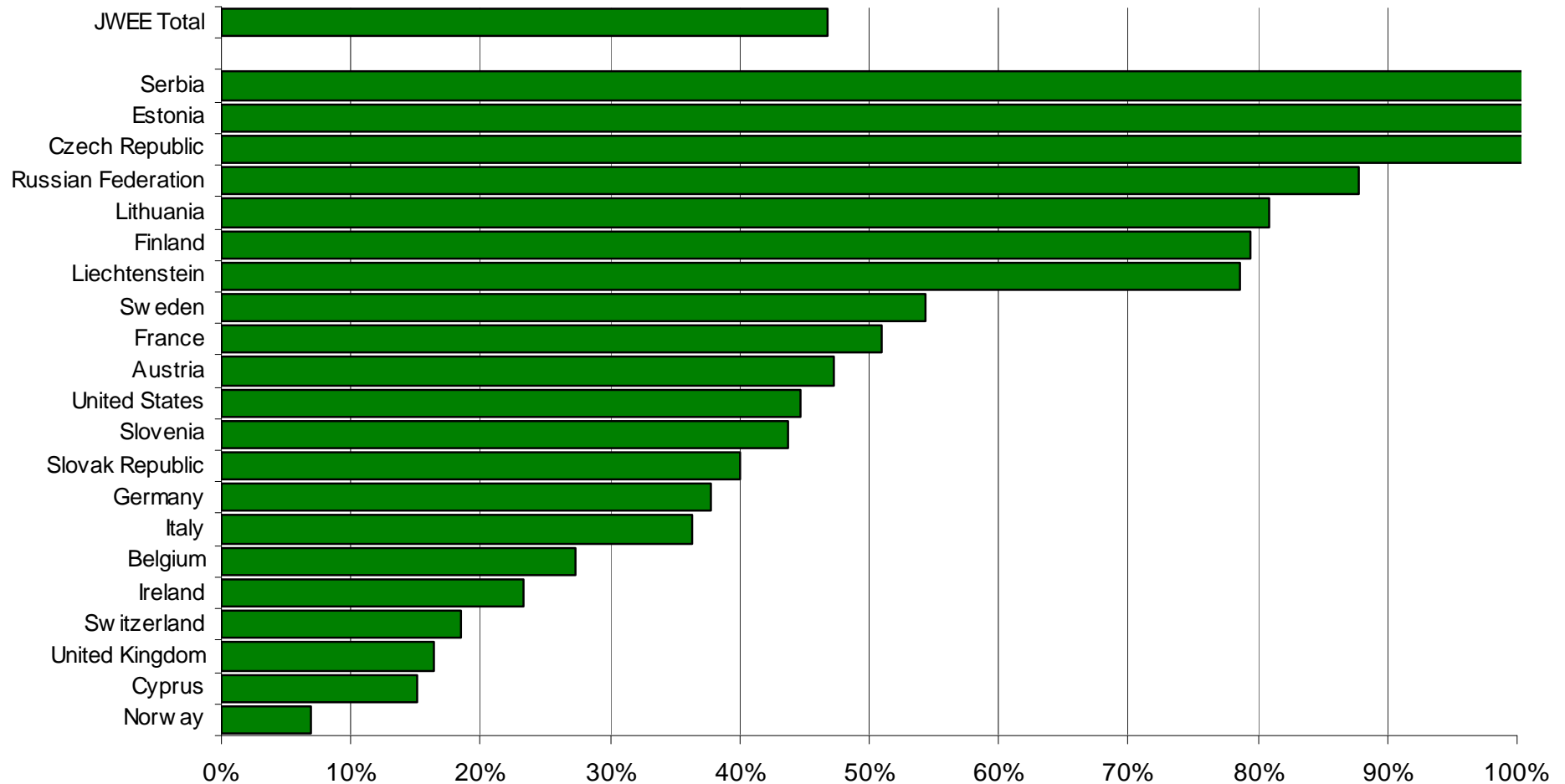
Role of wood energy in Total Primary Energy Supply

Share of woody biomass in TPES, 2009



Role of wood energy among RES

Share of woody biomass in RES, 2009



Trends

- Between 2005 and 2009 the amount of wood used for energy purposes grew annually by 2.7%.
- Wood energy now accounts for 3% of the total primary energy supply (TPES) and 47% of the renewable energy supply (RES)
- One of the biggest movers is the UK: share in TPES from 0.15% in 2005 to 0.52% in 2009; Share in RES from 8.2% in 2005 to 16.3% in 2009.
- Role of wood in TPES supply grew, whereas it slightly declined among renewables. Other renewables at faster rates of increase (?).



Issues

- Apparent inconsistency in the share of woody biomass among renewable energy sources (IEA figures) for some countries (Czech Republic, Estonia, Serbia)
- Table III has been filled by very few countries, which may cause double-counting issues
- Some conversion factors, methods were modified/added ex-post (in the data analysis phase) e.g. for post-consumer wood



Dissemination and Outreach

Country Profile

Austria

Total Population (2009)	8,365,276
Rural Population (% of total)	32%

Woody Biomass Supply	2009	2007	2005
Roundwood and Fuelwood removed from forest and outside forest (1000m ³)	15,495	25,044	15,471
Roundwood and Fuelwood supply from forest and outside forest including net trade (1000m ³)	26,182	36,954	24,471
Total domestic woody biomass supply (including cascaded use) (1000m ³)	42,552	52,245	

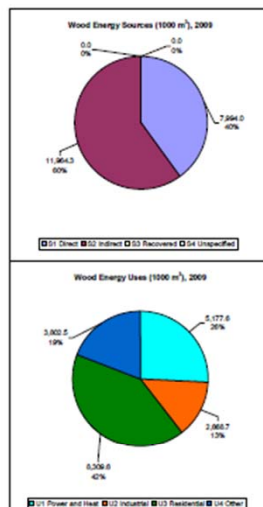
Energy Resources	2009	2007	2005
Total primary energy supply, TPES (toe)	31,696	32,272	33,961
Share of renewables (RES) in TPES	27.8%	24.1%	21.1%
Total wood energy generation (1000m ³)	13,050	17,853	14,443
Total wood energy generation (toe)	4,167	5,718	3,908

Wood Energy Intensity	2009	2007	2005
Average wood energy consumption (m ³ /capita)	2.35	2.15	1.76
Fuelwood consumption per rural inhabitant (m ³ /inhabitant)	1.87	1.96	1.46
Per capita consumption per inhabitant (kg/capita)	54.24	46.43	

Role of Wood Energy in Forest Sector	2009	2007	2005
Direct mobilisation of woody biomass for energy production from forests and outside forests (m ³ /ha)	2.35	1.89	2.07
Share of Total Roundwood and Fuelwood supply directly used for energy purposes (%)	30.5%	17.0%	28.3%
Total woody biomass used for energy per ha of Forest and Other Wooded Land (OWL) available for wood supply (m ³ /ha)	5.97	5.34	4.32
Share of Total domestic woody biomass supply (including cascaded use) used for energy purposes (%)	46.9%	34.2%	

Role of Wood Energy in Energy Sector	2009	2007	2005
Share of woody biomass in TPES (%)	13.1%	11.2%	8.9%
Share of woody biomass in RES (%)	47.2%	46.3%	41.9%
Share of wood energy generated from black liquor (%)	6.1%	16.7%	
Imported wood fuel as share of wood energy (%)	11.8%	2.4%	

Wood Energy Sources and Uses in 2009 (1000 m ³)	U1 Power and Heat	U2 Industrial	U3 Residential	U4 Other	Sum (U1, U2, U3, U4)	%
U1 Direct	4.8	0.0	7,001.7	987.9	7,994.0	40.1%
U2 Indirect	5,122.1	2,698.1	1,307.9	2,619.3	11,748.0	59.9%
U3 Recovered	0.0	0.0	0.0	0.0	0.0	0.0%
U4 Unspecified	0.0	0.0	0.0	0.0	0.0	0.0%
Sum (U1, U2, U3, U4)	5,177.6	2,698.1	8,309.6	3,607.2	19,592.5	
%	26.4%	13.8%	42.4%	18.4%		



WOOD ENERGY

UNECE/FAO Forestry and Timber



Wood confirmed as the primary source of renewable energy in Europe

The world is waking up to the possibilities offered by wood
Wood accounts for 3% of the total primary energy supply (TPES) and 47 % of the renewable energy supply (RES) in the UNECE region in 2009, confirming its role as the leading source of renewable energy.

Read more on page 7 and 8, or consult on the UNECE website at:
<http://www.unece.org/forests/mis/energy/jwee.html>



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Questions

Delegates are invited to:

- a) express their opinion on the JWEE process so far (structure, communication, timeline);*
- b) inform the Working Party about efforts to improve knowledge on wood energy at the national level;*
- c) inform the Working Party of any other dissemination initiatives taken;*
- d) suggest further opportunities for reaching out to other sectors and working with actors in those areas;*
- e) provide advice on funding and development of outreach and communication activities*



Future Work

- Wood Energy Policy Debate, 8 May, Geneva
- JWEE Workshop, 11-13 June, Paris
- JWEE 2011 September 2011, replies by 30 November 2011

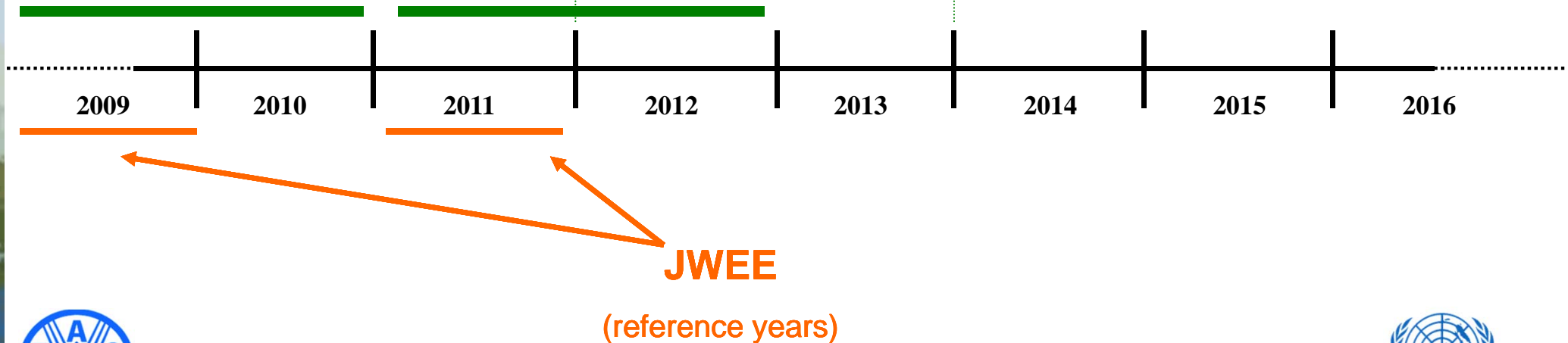


JWEE cycle

EU NREAP (Directive 2009/28/EC)

Progress report
(reference years)

Submission NREAP
report for reference
years n-1, n-2



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Future Work

The Working Party is invited to

- a) review and endorse the timeline for running the fourth round of the Joint Wood Energy Enquiry*
- b) assist in the identification and appointment of qualified JWEE national correspondents*
- c) endorse the plans for improving wood energy data across the UNECE region through capacity-building and annual reporting.*



Thank you!

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Thank you for your attention!



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