# Annexes

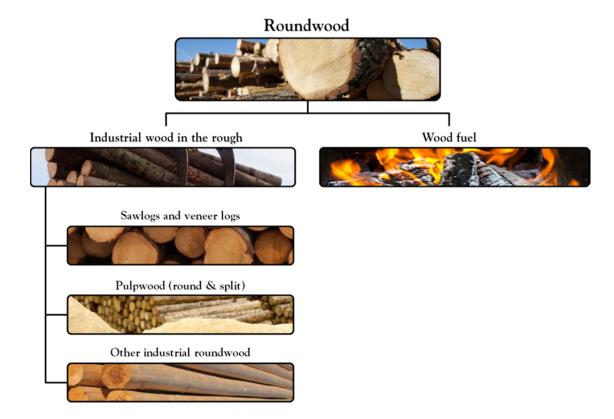
Components of wood products groups	
Roundwood flowchart	
Wood-based panels flowchart	
Wood pulp flowchart	
Paper and paperboard flowchart	154
Countries in the UNECE region and its subregions	155
List of Authors	156
Some facts about the Timber Committee	157
UNECE/FAO publications	158

152 \_\_\_\_\_\_\_Annex

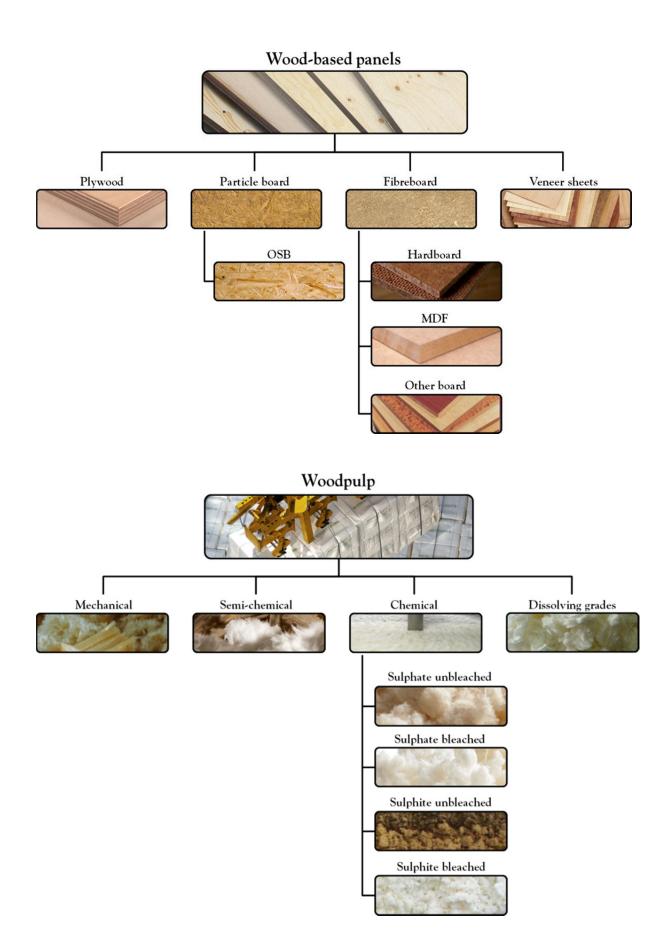
### Components of wood products groups<sup>19</sup>

(Based on Joint Forest Sector Questionnaire nomenclature)

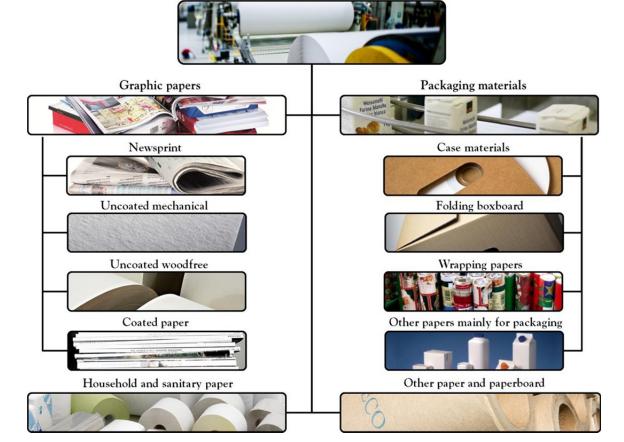
The important breakdowns of the major groups of primary forest products are diagrammed below. In addition, many sub-items are further divided into softwood or hardwood. These are all the roundwood products, sawnwood, veneer sheets and plywood. Items that do not fit into listed aggregates are not shown. These are wood charcoal, chips and particles, wood residues, sawnwood, other pulp and recovered paper.



<sup>&</sup>lt;sup>19</sup> The sources for pictures used in these diagrams are databanks of Metsä Group (2012), Raunion Saha (2012), Stora Enso (2012), UPM (2012).



# Paper and paperboard



# Countries in the UNECE region and its subregions



# Commonwealth of Independent States Armenia Azerbaijan Belarus Georgia Kazakhstan Kyrgyzstan Republic of Moldova Russian Federation Tajikistan Turkmenistan Ukraine Uzbekistan

North America
Canada
United States of America

Europe				
EU		Other		
Austria	Lithuania	Albania		
Belgium	Luxembourg	Andorra		
Bulgaria	Malta	Bosnia and Herzegovina		
Cyprus	Netherlands	Croatia		
Czech Republic	Poland	Iceland		
Denmark	Portugal	Israel		
Estonia	Romania	Liechtenstein		
Finland	Slovakia	Monaco		
France	Slovenia	Montenegro		
Germany	Spain	Norway		
Greece	Sweden	San Marino		
Hungary	<b>United Kingdom</b>	Serbia		
Ireland		Switzerland		
Italy		The fYR of Macedonia		
Latvia		Turkey		

156 \_\_\_\_\_\_\_ Annex

# List of Authors

First Name	Family Name	Chapter	Affiliation	Email address
Francisco	Aguilar	9	University of Missouri, Columbia, Missouri, US	aguilarf@missouri.edu
Eduard	Akim	8	State Technological University of Plant Polymers, St. Petersburg, Russian Federation	akim-ed@mail.ru
Delton	Alderman	2	USDA Forest Service, Princeton, West Virginia, US	dalderman@fs.fed.us
Peter	Aurenhammer	12, 13	Pöyry Management Consulting Austria Gmbh	peter.aurenhammer@poyry.com
Olin	Bartlomé	13	Lignum, Holzwirtschaft Schweiz, Zürich	olin.bartlome@lignum.ch
Isabelle	Brose	7	The European Confederation of Woodworking Industries, Brussels, Belgium	isabelle.brose@cei-bois.org
Peter	Butzelaar	5	International Wood Markets Group Inc., Vancouver, BC, Canada	peterb@woodmarkets.com
Douglas	Clark	13	UNECE - United Nations Economic Commission for Europe, Geneva 10, Switzerland	douglaspclark@hotmail.co.uk
Ivan	Eastin	7	University of Washington, Seattle, Washington, US	eastin@uw.edu
Håkan	Ekström	4	Wood Resources International LLC, Seattle, Washington, US	hekstrom@wri-ltd.com
Henric	Endoff	5	Agenda Business Development, Sweden	henric.endoff@agenda-bd.com
Kathryn	Fernholz	10	Dovetail Partners, Minneapolis, Minnesota, US	katie@dovetailinc.org
Christopher	Gaston	3, 12	FPInnovations, Vancouver, Canada	Chris.Gaston@fpinnovations.ca
Rens	Hartkamp	9	Free-lance consultant, Den Haag, Netherlands	r.hartkamp@wwrgroup.com
Jaana	Korhonen	11	Department of Forest Sciences, University of Helsinki, Finland	Jaana.korhonen@helsinki.fi
Florian	Kraxner	10	International Institute for Applied Systems Analysis, Laxenburg, Austria	kraxner@iiasa.ac.at
Bernard	Lombard	8	Confederation of European Paper Industries (CEPI), Brussels, Belgium	b.lombard@cepi.org
Warren	Mabee	9	Queens University, Kingston, Ontario, Canada	warren.mabee@queensu.ca
Igor	Novoselov	3, 5, 7	LespromNetwork	igor.novoselov@gmail.com
Rupert	Oliver	6	Forest Industries Intelligence Ltd, Settle, UK	rjwoliver@btopenworld.com
Tapani	Pahkasalo	12	INDUFOR, Helsinki, Finland	tapani.pahkasalo@indufor.fi
Tomas	Parik	8	Confederation of European Paper Industries (CEPI), Ivancice, Czech Republic	tomas.parik@frantschach.com
Dominique	Reeb	3	UNECE - United Nations Economic Commission for Europe, Geneva 10, Switzerland	dominique.reeb@fao.org
Helmuth	Resch	3	University of Natural Resources, Vienna, Austria	helmuth.resch@boku.ac.at
Robert	Shelburne	2	UNECE - United Nations Economic Commission for Europe, Geneva 10, Switzerland	robert.shelburne@unece.org
Kenneth E.	Skog	9	USDA Forest Service, Forest Products Laboratory, Wisconsin, US	kskog@fs.fed.us
Morwenna	Spear	13	The BioComposites Centre, University of Wales, Bangor	m.j.spear@bangor.ac.uk
Russ	Taylor	5	International Wood Markets Group Inc., Vancouver, BC, Canada	retaylor@woodmarkets.com
Jukka	Tissari	11	Food and Agriculture Organization of the United Nations (FAO), Rome, Italy	jukka.tissari@fao.org
Michel	Valois	8	Valois Vision Marketing, British Columbia Canada	michel@valoisvision.com
Rich	Vlosky	3	Louisiana State University, Baton Rouge, Louisiana, US	vlosky@lsu.edu

#### Some facts about the Timber Committee

The Timber Committee is a principal subsidiary body of the UNECE (United Nations Economic Commission for Europe) based in Geneva. It constitutes a forum for cooperation and consultation between member countries on forestry, the forest industry and forest product matters. All countries of Europe, the Commonwealth of Independent States, the United States, Canada and Israel are members of the UNECE and participate in its work.

The UNECE Timber Committee shall, within the context of sustainable development, provide member countries with the information and services needed for policy- and decision-making with regard to their forest and forest industry sectors ("the sector"), including the trade and use of forest products and, when appropriate, will formulate recommendations addressed to member governments and interested organizations. To this end, it shall:

- 1. With the active participation of member countries, undertake short-, medium- and long-term analyses of developments in, and having an impact on, the sector, including those offering possibilities for the facilitation of international trade and for enhancing the protection of the environment;
- 2. In support of these analyses, collect, store and disseminate statistics relating to the sector, and carry out activities to improve their quality and comparability;
- 3. Provide the framework for cooperation e.g. by organising seminars, workshops and ad hoc meetings and setting up time-limited ad hoc groups, for the exchange of economic, environmental and technical information between governments and other institutions of member countries required for the development and implementation of policies leading to the sustainable development of the sector and to the protection of the environment in their respective countries;
- 4. Carry out tasks identified by the UNECE or the Timber Committee as being of priority, including the facilitation of subregional cooperation and activities in support of the economies in transition of central and eastern Europe and of the countries of the region that are developing from an economic perspective;
- 5. It should also keep under review its structure and priorities and cooperate with other international and intergovernmental organizations active in the sector, and in particular with the FAO (Food and Agriculture Organization of the United Nations) and its European Forestry Commission, and with the ILO (International Labour Organisation), in order to ensure complementarity and to avoid duplication, thereby optimizing the use of resources.

More information about the Committee's work may be obtained by writing to:

UNECE/FAO Forestry and Timber Section Trade and Timber Division United Nations Economic Commission for Europe Palais des Nations CH-1211 Geneva 10, Switzerland

Fax: +41 22 917 0041 info.ECE-FAOforests@unece.org www.unece.org/forests

158 Annex

#### **UNECE/FAO** Publications

#### Forest Products Annual Market Review 2011-2012

ECE/TIM/SP/30

Note: other market related publications and information are available in electronic format from our website.

#### Geneva Timber and Forest Study Papers

The North American Forest Sector Outlook Study 2006-2030	ECE/TIM/SP/29
European Forest Sector Outlook Study 2010-2030	ECE/TIM/SP/28
Forest Products Annual Market Review 2010-2011	ECE/TIM/SP/27
Private Forest Ownership in Europe	ECE/TIM/SP/26
Forest Products Annual Market Review 2009-2010	ECE/TIM/SP/25
Forest Products Annual Market Review 2008-2009	ECE/TIM/SP/24
Forest Products Annual Market Review 2007-2008	ECE/TIM/SP/23
Forest Products Annual Market Review 2006-2007	ECE/TIM/SP/22
Forest Products Annual Market Review, 2005-2006	ECE/TIM/SP/21
European Forest Sector Outlook Study: 1960 – 2000 – 2020, Main Report	ECE/TIM/SP/20
Forest policies and institutions of Europe, 1998-2000	ECE/TIM/SP/19
Forest and Forest Products Country Profile: Russian Federation	ECE/TIM/SP/18
(Country profiles also exist on Albania, Armenia, Belarus, Bulgaria, former Czech and Slovak Federal Republic, Estonia, Georgia, Hungary, Lithuania, Poland, Romania, Republic of Moldova, Slovenia and Ukraine)	
Forest resources of Europe, CIS, North America, Australia, Japan and	
New Zealand	ECE/TIM/SP/17

# The above series of sales publications and subscriptions are available through United Nations Publications Offices as follows:

Orders from Africa, Europe and the Middle East should be sent to:

Orders from North America, Latin America and the Caribbean, Asia and the Pacific should be sent to:

Sales and Marketing Section, Room C-113
United Nations
Palais des Nations
Sales and Marketing Section, Room DC2-853
United Nations
2 United Nations Plaza

CH - 1211 Geneva 10, Switzerland

New York, N.Y. 10017

United States, of America

Fax: + 41 22 917 0027

E-mail: unpubli@unog.ch

Fax: + 1 212 963 3489

E-mail: publications@un.org

E-mail: publications@un.org

Web site: http://www.un.org/Pubs/sales.htm

\* \* \* \* \*

#### Geneva Timber and Forest Discussion Papers (original language only)

Swedish Forest Sector Outlook Study	ECE/TIM/DP/58
The Importance of China's Forest Products Markets to the UNECE Region	ECE/TIM/DP/57
Good Practice Guidance on Sustainable Mobilisation of Wood: Proceedings from the Grenoble Workshop	*ECE/TIM/DP/56
Harvested Wood Products in the Context of Climate Change Policies: Workshop Proceedings - 2008	*ECE/TIM/DP/55
The Forest Sector in the Green Economy	ECE/TIM/DP/54
National Wood Resources Balances: Workshop Proceedings	*ECE/TIM/DP/53
Potential Wood Supply in Europe	*ECE/TIM/DP/52
Wood Availability and Demand in Europe	*ECE/TIM/DP/51
Forest Products Conversion Factors for the UNECE Region	ECE/TIM/DP/49
Mobilizing Wood Resources: Can Europe's Forests Satisfy the Increasing Demand for Raw Material	
and Energy Under Sustainable Forest Management? Workshop Proceedings - January 2007	*ECE/TIM/DP/48
European Forest Sector Outlook Study: Trends 2000-2005 Compared to the EFSOS Scenarios	ECE/TIM/DP/47
Forest and Forest Products Country Profile; Tajikistan	*ECE/TIM/DP/46
Forest and Forest Products Country Profile: Uzbekistan	ECE/TIM/DP/45
Forest Certification – Do Governments Have a Role?	ECE/TIM/DP/44
International Forest Sector Institutions and Policy Instruments for Europe: A Source Book	ECE/TIM/DP/43
Forests, Wood and Energy: Policy Interactions	ECE/TIM/DP/42
Outlook for the Development of European Forest Resources	ECE/TIM/DP/41
Forest and Forest Products Country Profile: Serbia and Montenegro	ECE/TIM/DP/40
Forest Certification Update for the UNECE Region, 2003	ECE/TIM/DP/39
Forest and Forest Products Country Profile: Republic of Bulgaria	ECE/TIM/DP/38
Forest Legislation in Europe: How 23 Countries Approach the Obligation to Reforest, Public Access and Use of	
Non-Wood Forest Products	ECE/TIM/DP/37
Value-Added Wood Products Markets, 2001-2003	ECE/TIM/DP/36
Trends in the Tropical Timber Trade, 2002-2003	ECE/TIM/DP/35
Biological Diversity, Tree Species Composition and Environmental Protection in the Regional FRA-2000	ECE/TIM/DP/33
Forestry and Forest Products Country Profile: Ukraine	ECE/TIM/DP/32
The Development of European Forest Resources, 1950 To 2000: a Better Information Base	ECE/TIM/DP/31
Modelling and Projections of Forest Products Demand, Supply and Trade in Europe	ECE/TIM/DP/30
Employment Trends and Prospects in the European Forest Sector	ECE/TIM/DP/29
Forestry Cooperation with Countries in Transition	ECE/TIM/DP/28
Russian Federation Forest Sector Outlook Study	ECE/TIM/DP/27
Forest and Forest Products Country Profile: Georgia	ECE/TIM/DP/26
Forest certification update for the UNECE region, summer 2002	ECE/TIM/DP/25
Forecasts of economic growth in OECD and central and eastern European countries for the period 2000-2040	ECE/TIM/DP/24
Forest Certification update for the UNECE Region, summer 2001	ECE/TIM/DP/23
Structural, Compositional and Functional Aspects of Forest Biodiversity in Europe	ECE/TIM/DP/22
Markets for secondary processed wood products, 1990-2000	ECE/TIM/DP/21
Forest certification update for the UNECE Region, summer 2000	ECE/TIM/DP/20
Trade and environment issues in the forest and forest products sector	ECE/TIM/DP/19
Multiple use forestry	ECE/TIM/DP/18
Forest certification update for the UNECE Region, summer 1999	ECE/TIM/DP/17
A summary of "The competitive climate for wood products and paper packaging:	
the factors causing substitution with emphasis on environmental promotions"	ECE/TIM/DP/16
Recycling, energy and market interactions	ECE/TIM/DP/15
The status of forest certification in the UNECE region	ECE/TIM/DP/14
The role of women on forest properties in Haute-Savoie (France): Initial research	ECE/TIM/DP/13
Interim report on the Implementation of Resolution H3 of the Helsinki Ministerial	EORES (PR)
Conference on the protection of forests in Europe (Results of the second enquiry)	ECE/TIM/DP/12
Manual on acute forest damage	ECE/TIM/DP/7

<sup>\*</sup> signifies web downloads only

160 \_\_\_\_\_\_Annex

#### The above series of publications may be requested free of charge through:

UNECE/FAO Forestry and Timber Section Trade and Timber Division United Nations Economic Commission for Europe Palais des Nations CH-1211 Geneva 10, Switzerland

Fax: +41 22 917 0041

E-mail: info.ECE-FAOforests@unece.org

Downloads are available at: www.unece.org/forests

#### UNECE/FAO GENEVA TIMBER AND FOREST STUDY PAPERS

The UNECE/FAO Geneva Timber and Forest Study Paper series contains annual and periodic analyses of the forest and forest industries sector. These studies are the official outputs of regular activities conducted within the Integrated Programme of Work of the UNECE Timber Committee and the FAO European Forestry Commission and as such should contribute to policy formation. Target audiences are governments, industry, research institutions, universities, international organizations, non-governmental organizations as well as experts from other sectors. These publications often form the basis for discussions of the Timber Committee and the European Forestry Commission and their subsidiary bodies.

Study Papers are usually based on statistics, forecasts and information submitted by country correspondents in the UNECE region (Europe, North America and Commonwealth of Independent States). The basic information is often submitted via agreed questionnaires, and then complemented by expert analysis from outside and within the secretariat. Study papers are issued on the responsibility of the secretariat, although the studies most often are the work of many contributors outside the UNECE/FAO.

Study Papers are translated whenever possible into the three official languages of the UNECE: English, French and Russian. They are UN sales documents and are distributed accordingly via UN bookstores and their affiliates. They are automatically distributed to heads of delegation of the Committee and the Commission, as well as nominated repository libraries, information centres and official distribution lists. They are also available via the Sales and Marketing Sections in Geneva and New York via unpubli@unog.ch and publications@un.org respectively. Study papers are also available on the Timber Committee and European Forestry Commission website at: www.unece.org/forests

UNECE/FAO Forestry and Timber Section
Trade and Timber Division
United Nations Economic Commission for Europe/
Food and Agriculture Organization of the United Nations
Palais des Nations
CH-1211 Geneva 10, Switzerland
Fax +41 22 917 0041
www.unece.org/forests
info.ECE-FAOforests@unece.org

# **Forest** Products

The Forest Products Annual Market Review 2011-2012 offers a comprehensive analysis of markets across the UNECE region, including North America, Europe, the Russian Federation and the Central Asian republics. It covers the range of products from the forest to the final end-user: from roundwood and primary processed products to value-added and innovative wood products.

Statistic-based chapters of the Review analyse markets of sawn softwood, sawn hardwood, wood-based panels, wood raw materials, and paper, paperboard and woodpulp. Other chapters analyse markets of forest carbon, wood energy, certified forest products, value-added wood products and innovative wood products. Underlying the analysis is a comprehensive collection of data.

The Review highlights the role of sustainable forest products in the international markets, and policies concerning forest and forest products are broadly discussed, as well as the main drivers and trends. It also analyses the general economic situation, and the effects of the deepening euro crisis and the general uncertainty on forest products markets.

The Review, with all the statistical information and analysis on forest products markets, is a key background document for the annual UNECE Timber Committee Market Discussions and also provides valuable and objective information for policymakers, researchers and investors.

Further information about forest products markets, as well as information about the UNECE Timber Committee and the FAO European Forestry Commission, is available on the website: www.unece.org/forests.

The Review has a statistical annex, which is available at: www.unece.org/fpamr2012.



Swiss Confederation

Federal Office for the Environment FOEN

Information Service
United Nations Economic Commission for Europe

Palais des Nations

CH - 1211 Geneva 10, Switzerland Telephone: +41(0)22 917 44 44 Fax: +41(0)22 917 05 05 E-mail: info.ece@unece.org Website: http://www.unece.org