

W O O D

CIRCULAR WOOD IN THE EMR REGION

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Euregio Meuse-Rhine



Introduction

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This publication is part of a European Interreg project Wanderful.stream (2020-2023). In this project eight organisations from the Euregio Meuse-Rhine are pooling their knowledge, strengths and resources to support small and medium-sized businesses make the transition to a more circular economy.

Wanderful.stream offers the companies free guidance and support in the valorisation of waste and residual streams and initiates and facilitates the co-creation of circular prototypes together with technology experts, designers and business developers.

In this publication you find an overview of the current situation (problems, needs and opportunities) in the wood sector with regard to the circular economy. This is part of a series of thematic publications and masterclasses on the different SME waste streams in the Meuse-Rhine region.

Using current examples of wood based circular economy from the EMR region, we would like to highlight some possible solutions and opportunities within the sector. The intention is not to be all-embracing but to be a source of inspiration for all SMEs, designers, technologists and users with an interest in the wood sector.

HOW TO USE



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Circular wood

IN THE EMR REGION



Wood and timber, harvested from sustainably managed forests, is a natural renewable resource that is increasingly proven as one of the prime materials on which to base bioeconomic and circular economic models.

In many countries, increased use of wood has been officially recognised as a measure in climate change action. It acts as a key carbon store and at the same time wood products save on man-made emissions as they are substituting more energy intensive materials and substances, including fossil fuels in energy generation, steel, concrete, aluminum and plastic across a range of areas in manufacturing and construction.

The EU wood sector employs about 3 million people and 90% of the EU wood consumption is supplied from EU forests. The Circular bio-economy is already embedded widely in the wood sector as many waste and byproducts are reused in other wood-based products and applications.

Nonetheless, almost half of the high value post-consumer wood waste still ends up being burned for energy, which should be the last resort in the wood cascade.

A lot of innovation efforts have been and are being done to increase the amount of post-consumer waste that stays in the loop. To keep the wood resources in the value chain as long as possible, we need to:

1. **Prevent** the loss of wood by designing materials/buildings that can last longer and are easier to maintain, that are easier to reuse/repair.
2. **Stimulate Reuse** of wooden products by: promoting 2nd hand use, promoting repair & refurbishment, reusing (modular) furniture parts into new furniture or deco, improving selective collection and pre-sorting of reusable wood (e.g. demolition) and promoting the remanufacturing or repurposing of wooden construction materials.
3. **Increasing the Recycling options** by: maximizing the separate collection of A and B type post-consumer waste, optimizing the after-sorting of B wood to separate recyclable from non-recyclable material, (further) increasing the usage of B wood in panel applications, (further) developing new technologies and new applications to increase recyclable B fraction (e.g. chemical recycling of molecules).
4. **Minimize** the use of reusable or recyclable wood (waste) materials for energy recovery.



On June 17, 2021 a masterclass was held on the theme of wood. It started with a State of the Art about circular wood industry in the Euregion by **Tom Janssen** (UCLL), followed by presentations of **Lasse Six** (Corporate Sustainability Expert at Unilin) and xylofiel Rik Ruigrok (Herso circular woodworkers).

RECYCLING WOOD



Unilin is a producer of chipboards in Desselgem Belgium, now part of Mohawk industries. The Chipboards are made out of 90% post-consumer wood waste. Every year 900.000 tons of wood waste are recycled by Unilin. They also use 100 % of by-products from other industries to manufacture MDF and HDF boards.

CONTACT: LASSE.SIX@UNILIN.COM

WWW.UNILIN.BE

REUSING WOOD



Herso is a manufacturing company in Loosbroek the Netherlands founded by **Rik Ruigrok**. The company produces circular furniture and floorin from wood in all forms (building, furniture) coming from local organisations, companies and municipalities.

CONTACT: INFO@HERSO.NL

WWW.HERSO.NL

Inspiration

HOW TO GET STARTED

Belgium:

- Fedustria – www.fedustria.be
- Wood.be – www.wood.be
- OVAM – www.ovam.be/houtafval
- Woodfactory – www.woodfactory.be

Netherlands:

- Centrum Hout – www.centrumhout.nl
- www.bosenhoutcijfers.nl/bos-en-houtsector/de-sector/

EU:

- European Woodworking Industry Confederation www.cei-bois.org



Literature

REPORTS

- **EU (2020)**, Mededeling “Een nieuw actieplan voor een circulaire economie – Voor een schoner en concurrerender Europa”, COM(2020) 98 final, Brussel, 11.3.2020.
- **EU Wood** – Building the Bioeconomy (<https://issuu.com/fedustriapub/docs/wood-building-the-bioeconomy-final-version-22.10.2>)
- **VITO**: <https://emis.vito.be/nl/bbt/publicaties/bbtbref-en-andere-publicaties/houtverwerkende-nijverheid>
- **OVAM reports**:
www.ovam.be/sites/default/files/atoms/files/Actieplan%20voedselverlies%20en%20biomassa%28rest%29stromen%20circulair%202021-2025.pdf
www.ovam.be/sites/default/files/atoms/files/Voortgangsrapportage_actieplan_duurzaam_beheer_van_biomassareststromen_2015-2020.pdf
- **Rijkswaterstaat (NL)**: www.afvalcirculair.nl/onderwerpen/linkportaal/publicaties/downloads/downloads-diverse/hergebruik-recycling-afvalhout-plan-aanpak/



Companies

Name company	Address (hoofdstaet)	City	Category	Region	e-mail	Tel nr.	Website
Forbo	Het Hofveld 4B001, 1702 Groot-Bijgaarden, België	Groot-Bijgaarden	Hout als grondstof	Nederland, België, Duitslar	info.belgium@forbo.com	(+32) 02 464 10 10	www.forbo-flooring.be
Dreschner Spitzen	Breitscheidstraße 78, 01237 Dresden, Duitsland	Dresden	Hout als grondstof	Nederland, België, Duitslar	info@lignotube.de	(+49) 0351 2048-2	https://lignotube.de/
Decouninck	Bruggesteenweg 360, 8830 Hooglede, België	Hooglede	Hout als grondstof	Nederland, België, Duitslar	belux@decouninck.com	(+32) 051 23 92 11	https://www.decouninck.be/nl-be/
Tabled design	Lijndenstraat 24 bus 1, 1018 NV Amsterdam, Nederland	Amsterdam	Hout als grondstof	Nederland, België, Duitslar	info@tabled-design.nl	(+31) 6 41732118	https://www.tabled-design.nl/
Karooz	Doom 13B, 9700 Oudenaarde, België	Oudenaarde	Hout als grondstof	Nederland, België, Duitslar	info@karooz.eu	(+32) 477 625 938	https://www.karooz.be/
Cocowood	Osseveldweg 23, 7321 CN Apeldoorn, Nederland	Apeldoorn	Hout als grondstof	Nederland, België, Duitslar	info@cocowood.nl	(+31) 6 14 124 638	http://cocowood.nl/
Beck fastener group	Raimund-Beck-Straße 1, 5270 Mauerkirchen, Austria	Mauerkirchen	Hout als grondstof	Wereldwijd	sales@beck-fastening.com	(+43) 07724 2111	https://www.beck-fastener.com/en/home.html
Engelvin bois moulé	1 Rue de l'Octroi, 48000 Mende, Frankrijk	Mende	Hout als grondstof	Wereldwijd	contact@engelvin-bois-moule.cc	(+33) 04 66 65 11	https://www.engelvin-bois-moule.com/fr/
Kedroplast			Hout als grondstof	Wereldwijd			
Feelingwood Denmark	Næssundvej 423a, 7960 Karby, Denmark	Karby, Sweden	Hout als grondstof	Wereldwijd	kk@thermoall.dk	(+45) 096 69 50 60	https://www.feelingwood.com/
Pavatex	Rite de la Pisciculture 37 CH-1701 Fribourg, Zwitserland	Fribourg	Hout als grondstof	Wereldwijd	info@pavatex.ch	(+41) 026 426 31 7	https://www.pavatex.com/en/home/
CMF Greentech	Via di Vittorio 423a, Caveszo, Italië	Caveszo	Hout als grondstof	Wereldwijd	info@cmfgreentech.com	(+39) 059 863 808	www.cmfgreentech.com
Comuven	11 boul. Centre Madawaska, Unit 12, St-Basile, NB E7C 1	Saint-Basile	Hout als grondstof	Wereldwijd		(+1) 506 802 7022	https://www.comuven.com/
hout	21 Parc d'Activité de l'Esclaire, 56190 Arzal, Frankrijk	Arzal	Hout als grondstof	Wereldwijd	l.crepin@silvadec.com	(+33) 2 97 45 09 0	https://fr.silvadec.com/
Act and sorb	Centrum-Zuid 1111, 3530 Houthalen-Helchteren, België	Houthalen-Helchteren	Houtafval als grondstof	EMR	management@act-and-sorb.com	(+32) 0 11 39 72 6	https://www.actandsorb.com/
Labeur/ RecupDesign	Balenmagazijnstraat 1, 9000 Gent, België	Ghent	Houtafval als grondstof	Nederland, België, Duitslar	bert@labeur.be	(+32) 04 70 18 06	https://www.labeur.be/recup-design
Groene kabinet	Viampijstraat 94, 3534 AR Utrecht, Nederland	Utrecht	Houtafval als grondstof	Nederland, België, Duitslar	Malou@groenekabinet.nl	(+31) 0638 221 55	http://www.groenekabinet.nl/
Herso	Molenhoeven 3, 5472 PX Loosbroek, Nederland	Loosbroek	Houtafval als grondstof	Nederland, België, Duitslar	info@herso.nl	(+31) 0413 292 09	https://herso.nl/
Pure Wood Design	Grote Markt 5, 3290 Diest, België	Diest	Houtafval als grondstof	Nederland, België, Duitslar	info@purewooddesign.be	(+32) 011 727 858	https://purewooddesign.be/nl/
Heppiehout	Krayenhofflaan 10, 6541 BG Nijmegen, Nederland	Nijmegen	Houtafval als grondstof	Nederland, België, Duitslar	info@heppiehout.nl	(+31) 0654975018	https://www.heppiehout.nl/
Woontheater	Hoolweg 1, 4021CN Maurik, Nederland	Maurik	Houtafval als grondstof	Nederland, België, Duitslar	info@woontheater.com	(+31) 0344-69131	https://www.woontheater.com/
Nature@home	Bolder 27, 4704 RK Roosendaal, Nederland	Roosendaal	Houtafval als grondstof	Nederland, België, Duitslar	info@natureathome.nl	(+31) 165 744 00	https://natureathome.eu/
Wonderwall studios	Maasheeseweg 70D, 5804 AB Venray, Nederland	Venray	Houtafval als grondstof	Nederland, België, Duitslar	info@wonderwallstudios.com	(+31) 478 515 4	https://wonderwallstudios.com/
Hakwood	Leemansstraat 2, 4251 LD Werkendam, Nederland	Werkendam	Houtafval als grondstof	Nederland, België, Duitslar	sales@hakwood.com	(+31) 183 504 20	https://www.hakwood.com/
Cubo Coverings	Industriestrasse 4, Massing, Germany	Massing	Houtafval als grondstof	Nederland, België, Duitsland		(+49) 8724 911 1	www.cubo-coverings.com
Ebony and co	Maasbroeseeweg 2, 5981 NB, Panningen, Nederland	Panningen	Houtafval als grondstof	Nederland, België, Duitslar	europa@ebonyandco.com	(+31) 20 616 34	https://www.ebonyandco.com/
Woodstag	Rue Veronese 25a, 1000 Brussel, België	Brussel	Houtafval als grondstof	Nederland, België, Duitslar	info@woodstag.be	(+32) 498 61 030	https://woodstag.be



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DISCLAIMER

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