



ÉCOLE SUPÉRIEURE DU BOIS

Sciences et technologies des matériaux biosourcés

A definition of recycle/recycling?

inclos covery. Recuperative, re-kū'per-ā-tiv, a. Tending or Redpo of the strength and spirits after toil; amuse-ment; entertainment. Redactor, re-dan', n. A field fortification of two ment; entertainment. Recreative, re'krë-āt-iv, a. Serving to repertaining to recovery. specie Recreate; refereing diverting to re-create; refereing diverting.

Recrement, re'krê-ment, n. Refuse; dross,

Recriminate, re'krim'in-at, ri. To return

one accusation with another.—re. To accuse

robin. Recur, re-ker', vi. (recurring, recurred). To Redra one accusation with another.—vt. To accuse robin. In return.
Recrimination, re-krim'in-a"shon, n. Act of recriminating; a counter-accusation. Recriminative, return; to be repeated at a stated interval. secon Recurrence, re-ku'rens, n. Act of recurring; Redra Recrudesce, re-krô-des', vl. 10 revive or show renewed activity. Recrudescence, re-krô-des'ens, n. Renewed outbreak; Increased severity after remission. Recruit, re-krôf, vl. To repair; to supply with new soliders.—vl. To gain new supplies of anything; to raise new soldiers.—h. A solidier newly 'kranted', n. A quadrilated, Redeem, re-dem', vl. To buy back; to ransom; to rescue; to save; to atone for; it or solidier newly 'kranted', n. A quadrilated, and has been promised. Redeemable, re-dem'-a-b; a. That may be draw return; recourse. Recurrent, re-ku'rent, a. Recurring from Redre soldier newly enlisted.

Rectangle, rek'tang-gl, n. A quadrilateral having all its angles right angles.

Rectangular, rek-tang'gū-ler, a. Rightredeemed.
Redeemer, rē-dēm'ér, n. One who redeen Jesus Christ.
Redeliver, rē-dē-liv'ér, nt. To deliver be time to time. to re Rectangular, reck-tang-gol-ter, or hugher angled.

Rectification, rek'ti-fi-k'al-ha'shon, n. Act or operation of rectifying; process of refining by operation of rectifying; process of refining by Rectifier, rek'ti-fi-fir, n. One who or that which rectifies; a refiner of alcohol.

Rectify, rek'ti-fir, n. (rectifying, rectified).

Rectify, rek'ti-fir, n. (rectifying, rectified).

Rectify, rek'ti-fir, n. (rectifying, rectified).

Rectified, rek'ti-fir, n. Integrity; probity; uprightness; honesty.

Integrity probity; uprightness; honesty. Recusancy, Recusance, re'kū-zan-sl, re'kūance Redsh zans, n. Nonconformity. Recusant, re'kū-zant, a. Obstinate in refusal; snipe refusing to conform to the established church. Redsk Hectituus, texturus, suuri prishinesse, honesty. A ruler; an Episcopal eiergynan who has the cure of a parish; a head of certain fraitfutions, chiefly exadentical, head of certain fraitfutions, chiefly exadentical, Rectorials, rectori -n. A nonconformist. of No rector or rectory.

Rectorship, Rectorate, rek'tor-ship, rek'tor-åt, n. Office or rank of a rector.

Rectory, rek'to-ri, n. A church or living held

Redouble, Red, red, a. Of a colour resembling that of Redst To double again,arterial blood.—n. A colour resembling that bird large intestine opening at the anus. Recumbent, re-kum'bent, a. Leaning; reof arterial blood; a red pigment. Red-t Redact, re-dakt', vt. To edit; to give a prerouti Recuperative, rē-kū'per-ā-tiv, a. Tending or sentable literary form to. exces pertaining to recovery.

Recur, re-kér', rl. (recurring, recurred). To return; to be repeated at a stated interval.

Recurrence, re-ku'rens, n. Act of recurring; re-draft' rt To draft anew -n. A draft; a second order for money,

,, rê-dra', rt. To draw again.—vi. To
new bill of exchange. Redaction, re-dak'shon, n. Act of preparing Redu Recurrent, re-ku'rent, a. Recurring from time to time. Recusancy, Recusance, re'kū-zan-sl, re'kū-zans, n. Nonconformity. for publication; the work thus prepared. bring nk, red'shangk, n. A bird allied to the zans, n. Nonconformity.

Recusant, re'kū-zant, a. Obstinate in refusal;
refusing to conform to the established church. in, red'skin, n. A Red Indian, or Indian rth America.

art, Redtail, red'stärt, red'täl, n. A

vith a red tail; a small sänging bird.

ape, red'täp, n. Excessive official

he and formality.—a. Characterized by —n. A nonconformist.

Red, red, a. Of a colour resembling that of I arterial blood.—a. A colour resembling that of arterial blood; a red pigment.

Redact, rê-dakt', rt. To edit; to give a presentable literary form to. Act of preparing I for publication; the work thus prepared. ch, chain; g, go; ng, sing; TH, then; th, thin routine or formality ch, chain; g, go; ng, sing; TH, then; th, thin; w, wig; wh, whig; zh, azure.

iate use als in old ucts	R8	Recycle	Useful materials within the product are extracted, separated and used as secondary materials for new products.
Approprof of materi prod	R9	Recover	The organic parts of a product are burnt with energy recovery

Circularity strategies based on work by:
Potting, J., Hekkert, M. P., Worrell, E., and Hanemaaijer, A.
(2017), Circular economy: measuring innovation in the product chain (No. 2544). PBL Publishers.

Appropriate us of materials in c products	Appropriate use of materials in old products	Maximi	ise the life ca	Maximise the lifespan of products and their components	roducts a	and their	Better de	Better design, manufacture and use	nufacture
R9	R8	R7	R6	R5	R4	R3	R2	R1	R0
Recover	Recycle	Repurpose	Remake	Refurbish	Repair	Re-use	Reduce	Rethink	Refuse

How much recovered wood is there?

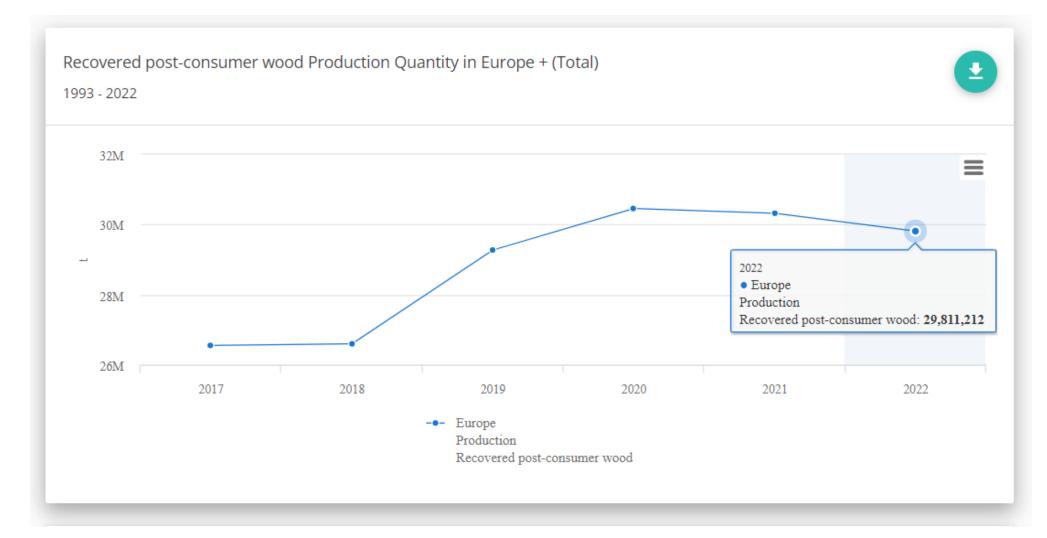
I wish I knew

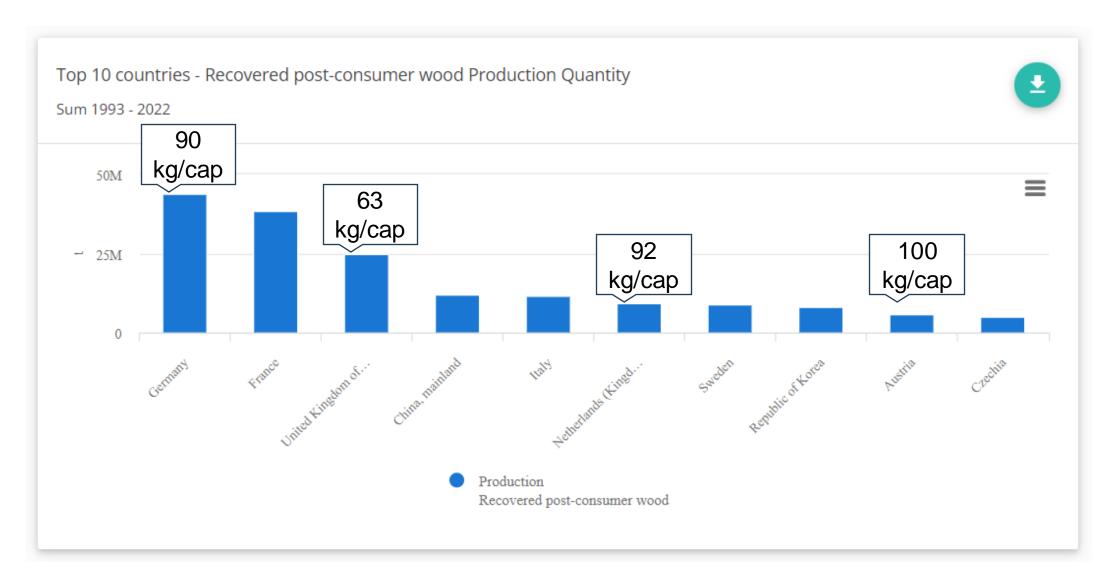
Output

Description:



Source: FAOSTAT 2023



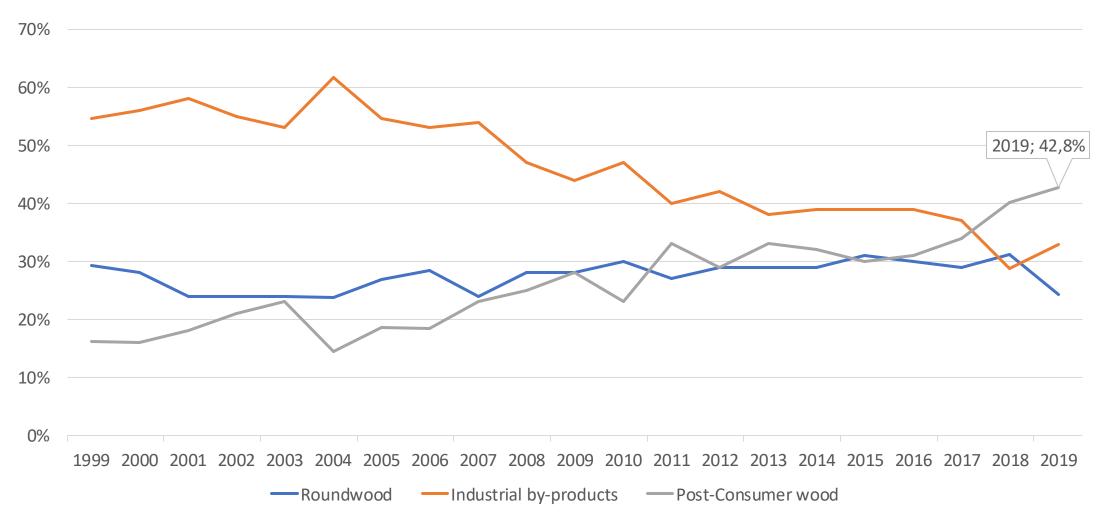


How we recycle wood





Wood demand in the EU Particleboard industry

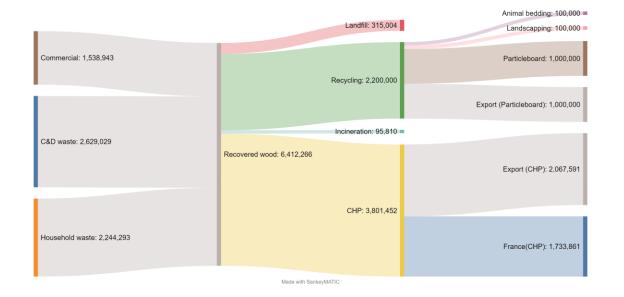


Source: EPF Annual Report 2019-20

Current challenges to recycling wood

Challenge No. 1

- Particleboard manufacture alone cannot use all the recovered wood available
 - Must find new methods of recycling wood into products



Challenge No. 2

- Economic viability of particleboard production under risk due to increasing presence of fibreboard
 - How to separate out fibreboard?
 - What to do with separated fibreboard?







DIEFFENBACHER

MOVE FORWARD, TOGETHER,

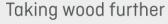












smartpanel[®]

















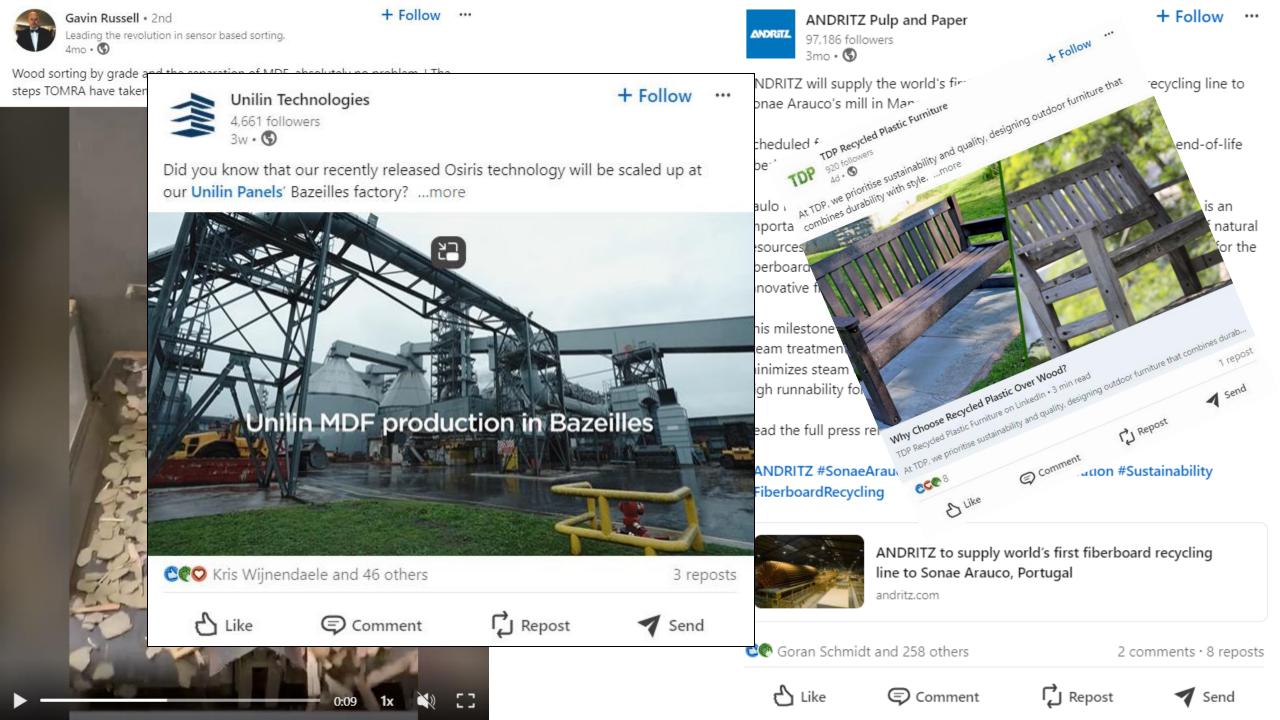












Plénière 3 – Valorisation en fin de vie

- Ing. Flore LEBRETON (doctorante ESB, projet Horizon Europe EcoReFibre)
 - Spécialiste de la caractérisation et du recyclage des produits bois en fin de vi
- Dr. Arnaud BESSERER (Lermab, Univ. Lorraine) Maitre de conférences à l'Université de Lorraine
 - spécialiste de Matériau et procédés

