

Supporting Data





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INPUT/OUTPUT 2021

Europe

Input

Wood and Fibre		
Wood ¹	5,214	ktonnes ar
Market virgin pulp	112	ktonnes ar
Other pulp	13	ktonnes ar
Recovered paper	4,999	ktonnes ar
Paper or Board purchased	1,581	ktonnes ar
Plastic films, other plastic item (BIB)	30	ktonnes
Starch (all types)	307	ktonnes ar
Inorganic raw materials	326	ktonnes ar
Other organic raw materials	182	ktonnes ar

Energy

Energy from fossil fuels	29,026	TJ (Terajoule)
Energy from purchased biofuels	5,557	TJ
Electricity from grid	2,226	GWh

Water

Water intake ²	112	Mm ³
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Output

Production		
Papers (all grades)	5,799	ktonnes
Corrugated packaging*	5,535	ktonnes
Board and laminated boards*	423	ktonnes
Converted board*	113	ktonnes
Sacks*	–	ktonnes
Other packaging	29.9	ktonnes

Direct Emissions to Air

CO ₂ fossil	1,720	ktonnes
CO ₂ biogenic	3,648	ktonnes
Dust/Particulates from fuels	0.18	ktonnes
SO _x from processes	0.84	ktonnes
NO _x from processes	2.9	ktonnes

Energy Output

Electricity to third party	314	GWh
Thermal energy to third party	253	TJ
Biomass sold	636	TJ

Wastes

Hazardous wastes	7.2	ktonnes
Non-hazardous wastes sent to landfill	177	ktonnes
Non-hazardous wastes recovered	452	ktonnes
Other non-hazardous wastes	14.1	ktonnes

Discharges to Water

Water released	103	Mm ³
COD	30.4	ktonnes
BOD	11.9	ktonnes
Total suspended solids	5.5	ktonnes
Total Nitrogen	0.51	ktonnes
Total Phosphorous	0.068	ktonnes

Notes

¹ Wood and sawmill chips as delivered to the mill.

² Water intake includes rainwater and waste water from another operation.

* Partly produced with Smurfit Kappa paper or board.

ktonnes ar: kilotonnes as received.

The table reports total energy consumption of the site, taking into account the fuels used to produce electricity and/or thermal energy sold externally. This results in different figures for these parameters compared to those on pages 94 to 95. The latter pages show the energy consumption for the production of the paper or board manufactured.

The Americas

Input

Wood and Fibre		
Wood ¹	706	ktonnes ar
Market virgin pulp	1	ktonnes ar
Other pulp	2	ktonnes ar
Recovered paper	1,511	ktonnes ar
Paper or Board purchased	482	ktonnes ar
Plastic films, other plastic item (BIB)	5	ktonnes
Starch (all types)	69	ktonnes ar
Inorganic raw materials	45	ktonnes ar
Other organic raw materials	61	ktonnes ar

Energy

Energy from fossil fuels	12,514	TJ
Energy from purchased biofuels	1,619	TJ
Electricity from grid	882	GWh

Water

Water intake ²	27.7	Mm ³
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Output

Production		
Papers (all grades)	1,483	ktonnes
Corrugated packaging*	1,688	ktonnes
Board and laminated boards*	112	ktonnes
Converted board*	84	ktonnes
Sacks*	67	ktonnes
Other packaging	4	ktonnes

Direct Emissions to Air

CO ₂ fossil	819	ktonnes
CO ₂ biogenic	566	ktonnes
Dust/Particulates from fuels	0.16	ktonnes
SO _x from processes	1.34	ktonnes
NO _x from processes	1.19	ktonnes

Energy Output

Electricity to third party	–	GWh
Thermal energy to third party	–	TJ
Biomass sold	–	TJ

Wastes

Hazardous wastes	1.61	ktonnes
Non-hazardous wastes sent to landfill	248	ktonnes
Non-hazardous wastes recovered	23.2	ktonnes
Other non-hazardous wastes	0.04	ktonnes

Discharges to Water

Water released	24.4	Mm ³
COD	11.0	ktonnes
BOD	2.96	ktonnes
Total suspended solids	2.95	ktonnes
Total Nitrogen	0.57	ktonnes
Total Phosphorous	0.030	ktonnes

Notes

1 Wood and sawmill chips as delivered to the mill.

2 Water intake includes rainwater and waste water from another operation.

* Partly produced with Smurfit Kappa paper or board.

ktonnes ar: kilotonnes as received.

The table reports total energy consumption of the site, taking into account the fuels used to produce electricity and/or thermal energy sold externally. This results in different figures for these parameters compared to those on pages 96 to 97. The latter pages show the energy consumption for the production of the paper or board manufactured.

ENVIRONMENTAL DATA 2021

Paper and Board Mills, Europe

		Nettingsdorf, Austria	Sangüesa, Spain	Facture, France	Piteå, Sweden	Morava, Czech Republic	Wrexen, Germany ⁵	Hoya, Germany ⁵	Zülpich, Germany	Mengibar, Spain
		kl, tl	mg paper	bkl, wtkl	bkl, wtkl	tl, fl	wttl, sb, tl, fl	tl, fl, cart	tl, fl	fl, tl
Production	ktonnes	457	87	562	685	74	317	464	526	229
Energy										
Electricity										
Co-generated	GWh	157	57	373 ¹	306	–	57	131	161	101
Self-generated	GWh	–	–	–	–	–	–	–	–	–
Hydro power	GWh	–	–	–	–	2.7	0.1	–	–	–
Net grid supply	GWh	138	91	39	264	21	37	43	31	– ²
Solar electricity generated on site	GWh	–	–	–	–	–	–	–	–	–
Total electricity	GWh	295	148	411	570	24	94	174	192	101
Fuel Usage										
Biofuels	TJ	4,428	2,158	9,160	10,129	13	63	98	274	–
Fossil fuels	TJ	789	218	632	181	345	1,345	2,560	2,941	1,664
Total fuels	TJ	5,217	2,376	9,793	10,309 ³	358	1,409	2,658	3,215	1,664
Water Withdrawal										
Surface	Mm ³	17.2	4.3	7.8	32.6	0.5	0.5	–	1.5	1.4
Ground	Mm ³	–	–	0.9	–	0.0	0.6	2.5	0.4	0.0
Grid	Mm ³	0.1	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0
Total water ⁴	Mm ³	17.4	4.5	9.3	33.2	0.5	1.1	2.7	1.9	1.4
Discharges										
To Air										
CO ₂ fossil direct Scope 1	ktonnes	45	14	36	14	19	76	144	215	94
CO ₂ fossil indirect Scope 2	ktonnes	–	24	2	4	11	15	17	12	–
CO ₂ biogenic	ktonnes	535	227	1,067	1,157	1	5	8	31	4
Dust (particulate matter PM)	tonnes	6.6	13.3	33.8	90.3	0.2	0.0	0.0	0.2	0.1
NO _x as NO ₂	tonnes	283	113	482	680	7	36	92	172	75
SO _x as SO ₂	tonnes	14	70	59	33	0	1	2	62	58
To Water										
Process water	Mm ³	5.95	3.90	9.72	12.44	0.31	0.29	2.08	–	1.15
Cooling water	Mm ³	8.35	–	–	20.70	–	0.50	0.08	1.10	–
COD	tonnes	9,698	255	4,065	2,107	41	70	238	–	670
BOD	tonnes	6,006	43	1,030	415	2	4	13	–	75
Total suspended solids	tonnes	865	90	702	540	7	5	77	–	252
Total Nitrogen	tonnes	48.7	18.5	92.2	38.6	6.1	0.7	24.3	–	39.6
Total Phosphorous	tonnes	4.7	2.8	11.3	11.9	0.1	0.1	2.6	–	4.4
Wastes										
Total non-hazardous wastes	tonnes	22,033	15,028	86,267	34,738	9,763	12,349	33,611	17,858	26,473
Landfill	tonnes	3,294	5,955	10,470	2,492	4,597	–	12	4,545	26,366
Recovery	tonnes	18,739	9,073	75,785	32,246	5,166	11,923	33,599	13,313	107
Other	tonnes	–	–	11	–	–	425	0	–	–
Hazardous wastes	tonnes	191	409	174	143	4	57	50	1,768	40

Notes

- 1 CHP partly or totally outsourced.
- 2 Electricity exported by CHP.
- 3 Part of heat exported outside the Group.

4 Total water includes rainwater and waste water from another organisation.

5 Both Hoya and Wrexen consist of two mills on one site, data are aggregated data per site.

Water discharges in *italics*: mills that do not discharge their process water to surface.

Alfa d'Avignon, France	Rethel, France	Sallaat, France	Ania, Italy	Roermond, the Netherlands	Pavenco, the Netherlands	Beograd, Serbia	SSK, United Kingdom	Townsend Hook, United Kingdom	Herzberger, Germany	Nervi6n, Spain	Total Mills
ti	ti	fi, ti	fi, ti	ti, fi	fi, grap pap, ti	ti, fi	ti, fi	fi, ti	sb	sack p	
73	66	255	230	646	586	111	202	234	260	159	6,223
–	–	44 ¹	68	115	–	–	60	76	75	129	1,910
0.0	–	–	–	–	–	–	–	–	0.0	0.0	0.0
–	–	0.8	–	–	–	–	–	–	1.0	–	4.7
28	23	75	– ²	63	363	45	– ²	11	17	61	1,350
–	–	–	–	–	–	–	–	–	–	–	–
28	23	121	68	179	363	45	60	87	93	189	3,265
–	11	104	49	224	1,197	–	43	55	–	3,581	31,586
314	276	1,374	1,377	2,729	1,576	734	1,339	1,369	1,656	114	23,534
314	287	1,478	1,426	2,953	2,774	734	1,382	1,424	1,656	3,695	55,121
1.0	–	1.9	–	2.1	15.5	1.0	–	1.0	3.8	2.6	94.9
–	0.4	–	1.5	–	5.1	–	1.0	0.3	0.0	–	12.7
–	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.9
1.1	0.5	2.0	1.5	2.3	20.8	1.0	1.2	1.3	3.9	2.8	110.5
18	15	77	78	154	90	67	75	77	92	7	1,406
2	1	4	–	–	–	33	–	–	7	16	147
0	2	11	3	20	141	–	4	8	–	368	3,592
0.0	0.1	0.8	0.0	0.0	2.1	4.7	0.0	0.0	1.1	24.1	177.5
20	6	43	21	121	132	86	111	48	40	276	2,845
2	10	1	0	25	8	401	0	4	3	49	803
0.63	0.40	1.62	1.23	1.80	4.79	0.91	0.96	0.82	1.43	2.03	52.46
0.20	–	–	–	–	15.55	–	–	0.16	2.18	–	48.83
725	40	232	111	319	765	3,978	3,699	106	259	1,311	28,687
243	3	7	14	7	32	1,296	1,924	5	16	312	11,448
148	8	74	19	35	144	259	1,689	26	26	122	5,087
26.3	5.9	31.6	12.0	42.2	42.3	6.5	25.9	13.2	2.3	1.0	477.9
3.8	0.4	1.9	1.2	2.6	6.9	1.3	10.1	0.6	0.7	0.2	67.6
3,350	1,899	18,214	17,416	47,159	63,176	17,333	21,617	26,271	31,711	76,141	582,407
658	1,494	17,517	1,779	7,467	2,695	8,648	6,263	3,865	–	62,813	170,928
2,692	405	697	15,637	39,555	60,482	8,684	15,311	22,404	31,485	13,328	410,632
–	–	–	–	138	–	–	44	3	226	–	847
56	6	52	42	14	85	3	124	95	27	27	3,366

bki: brown kraftliner
cart: carton board
fi: recycled fluting
grap p: graphic paper

mg paper: machine glazed paper
sb: solid board
ti: testliner

wtkl: white top kraftliner
wtli: white top testliner
sack p: sack paper

ENVIRONMENTAL DATA 2021 CONTINUED

Paper and Board Mills, The Americas

		Bernal, Argentina	Coronel Suárez, Argentina	Bento, Brazil	Pirapetinga, Brazil	Uberaba, Brazil
		ti, fi	ti, fi	fi, ti	ti, fi, wttl	ti, fi
Production	ktonnes	85	48	49	124	59
Energy						
Electricity						
Co-generated	GWh	–	–	–	–	–
Self-generated	GWh	–	–	–	–	0.0
Hydro power	GWh	–	–	–	–	–
Solar electricity generated on site	GWh	–	–	–	–	–
Net grid supply	GWh	36	13	18	59	31
Total electricity	GWh	36	13	18	59	31
Fuel Usage						
Biofuels	TJ	–	–	381	844	489
Fossil fuels	TJ	468	298	2	49	6
Total fuels	TJ	468	298	382	893	495
Water Withdrawal						
Surface	Mm ³	–	–	0.1	0.9	–
Ground	Mm ³	0.8	0.3	–	–	0.5
Grid	Mm ³	0.0	–	0.0	0.0	–
Total water ¹	Mm ³	0.8	0.3	0.2	0.9	0.5
Discharges						
To Air						
CO ₂ fossil direct Scope 1	ktonnes	26	17	0	3	0
CO ₂ fossil indirect Scope 2	ktonnes	12	4	2	6	3
CO ₂ biogenic	ktonnes	0	–	40	89	49
Dust (particulate matter PM)	tonnes	0.0	0.0	55.0	40.7	31.3
NO _x as NO ₂	tonnes	29	19	64	136	58
SO _x as SO ₂	tonnes	3	0	0	11	0
To Water						
Process water	Mm ³	0.41	0.18	–	0.61	0.32
Cooling water	Mm ³	0.30	–	–	–	–
COD	tonnes	58	87	–	155	603
BOD	tonnes	7	17	–	74	174
Total Suspended Solids	tonnes	7	30	–	40	72
Total Nitrogen	tonnes	7.2	1.1	–	13.0	2.8
Total Phosphorous	tonnes	0.4	0.1	–	0.7	0.3
Wastes						
Total non-hazardous wastes	tonnes	9,415	3,854	5,354	13,868	8,583
Landfill	tonnes	2,637	3,824	3,487	13,578	8,422
Recovery	tonnes	6,778	31	1,867	290	161
Other	tonnes	–	–	–	–	–
Hazardous wastes	tonnes	70	18	46	36	9

Notes

¹ Total water includes rainwater and waste water from another organisation.

Water discharges in *italics*: mills that do not discharge their process water to surface.

	Cali, Colombia	Barranquilla, Colombia	Barbosa, Colombia	Los Reyes, Mexico	Cerro Gordo, Mexico	Monterrey, Mexico	Forney, USA	Total Mills
sc fl, sack p, bki, p&w, cart, ti, wtkl, pulp	ti, fl	fl, ti	fl, ti	fl, ti	ti, cart, fl	fl, ti	ti, fl	
240	65	109	137	323	32	324	1,595	
190	20	45	–	–	–	–	31	286
0.1	–	0.0	–	–	–	–	–	0.1
–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–
107	17	9	70	161	20	111	652	
297	37	54	70	161	20	142	938	
3,569	–	–	–	–	–	–	132	5,415
4,644	558	681	745	1,448	242	1,709	10,849	
8,213	558	681	745	1,448	242	1,841	16,263	
19.2	0.6	0.8	–	–	–	–	–	21.6
0.2	–	–	0.4	1.5	0.1	–	–	3.8
–	0.0	–	–	–	0.1	1.0	–	1.1
19.4	0.6	0.8	0.6	1.6	0.2	1.1	–	26.9
357	31	45	42	81	14	96	714	
0	0	–	32	73	9	46	186	
351	–	–	–	–	0	17	546	
27.9	2.5	0.7	0.0	0.4	0.0	1.1	159.6	
637	23	51	20	34	26	49	1,145	
1,179	0	79	0	0	0	17	1,290	
19.12	0.47	0.64	0.29	0.86	0.10	0.60	23.61	
–	–	–	–	–	–	0.02	0.32	
6,312	1,544	176	78	608	49	1,154	10,825	
1,426	800	40	4	64	6	287	2,900	
1,577	222	74	6	87	19	793	2,926	
478.3	5.9	3.2	1.3	8.4	0.8	48.5	570.5	
9.3	0.7	1.4	0.5	2.0	0.2	14.4	30.0	
85,582	4,456	9,354	14,580	44,424	4,264	48,090	251,824	
84,583	3,779	7,721	13,779	44,074	2,624	47,785	236,291	
1,000	678	1,633	800	350	1,640	305	15,532	
–	–	–	–	–	–	0	0	
182	15	9	22	36	6	1	450	

bki: brown kraftliner
cart: carton board
fl: recycled fluting
sc fl: semi-chemical fluting

p&w: printing and writing paper
pulp: virgin pulp sold externally
ti: testliner

wtkl: white top kraftliner
wttl: white top testliner
sack p: sack paper

ENVIRONMENTAL DATA 2021 CONTINUED

Operations Total, Europe

		Paper and Board Mills	Integrated Corrugated Operations	Other Packaging Operations	Other Operations	Total Operations
Production	ktonnes	6,223	5,216	463	2,894	
Energy						
Electricity						
Co-generated	GWh	1,910	–	–	–	1,910
Self-generated	GWh	0	–	–	–	0
Hydro power	GWh	5	–	–	–	5
Solar electricity generated on site	GWh	–	–	–	–	–
Net grid supply	GWh	1,350	586	89	5	2,029
Total electricity	GWh	3,265	586	89	5	3,944
Fuel Usage						
Biofuels	TJ	31,586	167	1	–	31,754
Fossil fuels	TJ	23,534	4,579	142	78	28,333
Total fuels	TJ	55,121	4,746	142	78	60,087
Water Withdrawal						
Surface	Mm ³	94.9	0.0	–	–	94.9
Ground	Mm ³	12.7	0.3	0.0	–	12.9
Grid	Mm ³	0.9	1.5	0.1	0.0	2.5
Total water ¹	Mm ³	110.5	1.8	0.1	0.0	112.4
Discharges						
To Air						
CO ₂ fossil direct Scope 1	ktonnes	1,406	261	8	6	1,682
CO ₂ fossil indirect Scope 2	ktonnes	147	126	19	1	293
CO ₂ biogenic	ktonnes	3,592	18	0	–	3,610
Dust (particulate matter PM)	tonnes	178	3	0	0	181
NO _x as NO ₂	tonnes	2,845	90	3	4	2,942
SO _x as SO ₂	tonnes	803	32	1	3	839
To Water						
Process water	Mm ³	52.5	0.6	0.0	–	53.1
Cooling water	Mm ³	48.8	0.2	0.0	–	49.0
COD ²	tonnes	28,687	1,750	–	–	30,437
BOD ²	tonnes	11,448	437	–	–	11,884
Total suspended solids ²	tonnes	5,087	396	–	–	5,483
Total Nitrogen ²	tonnes	478	37	–	–	515
Total Phosphorous ²	tonnes	68	1	–	–	68
Wastes						
Total non-hazardous wastes	tonnes	582,407	47,813	7,087	6,347	643,655
Landfill	tonnes	170,928	4,343	807	1,076	177,154
Recovery	tonnes	410,632	30,148	5,759	5,271	451,810
Other	tonnes	847	12,704	538	–	14,089
Hazardous wastes	tonnes	3,366	3,417	378	8	7,169

Notes

- 1 Total water includes rainwater and waste water from another organisation.
- 2 Sum of available data (for mills details are reported in individual tables).

Operations Total, The Americas

		Paper and Board Mills	Other Operations	Total Operations
Production	ktonnes	1,595	3,353	
Energy				
Electricity				
Co-generated	GWh	286	–	286
Self-generated	GWh	0	0	1
Hydro power	GWh	–	–	–
Solar electricity generated on site	GWh	–	1	1
Net grid supply	GWh	652	226	878
Total electricity	GWh	938	227	1,165
Fuel Usage				
Biofuels	TJ	5,415	194	5,609
Fossil fuels	TJ	10,849	1,665	12,514
Total fuels	TJ	16,263	1,859	18,122
Water Withdrawal				
Surface	Mm ³	21.6	0.1	21.7
Ground	Mm ³	3.8	0.3	4.1
Grid	Mm ³	1.1	0.5	1.6
Total water ¹	Mm ³	26.9	0.8	27.7
Discharges				
To Air				
CO ₂ fossil direct Scope 1	ktonnes	714	105	819
CO ₂ fossil indirect Scope 2	ktonnes	186	74	260
CO ₂ biogenic	ktonnes	546	20	566
Dust (particulate matter PM)	tonnes	160	3	163
NO _x as NO ₂	tonnes	1,145	42	1,187
SO _x as SO ₂	tonnes	1,290	46	1,336
To Water				
Process water	Mm ³	23.6	0.2	23.8
Cooling water	Mm ³	0.32	–	0.32
COD ²	tonnes	10,825	136.85	10,961
BOD ²	tonnes	2,900	64.89	2,964
Total suspended solids ²	tonnes	2,926	22.60	2,948
Total Nitrogen ²	tonnes	570.5	2.4	572.9
Total Phosphorous ²	tonnes	30.0	0.2	30.2
Wastes				
Total non-hazardous wastes	tonnes	251,824	19,778	271,602
Landfill	tonnes	236,291	12,002	248,293
Recovery	tonnes	15,532	7,680	23,212
Other	tonnes	0	40	41
Hazardous wastes	tonnes	450	1,156	1,606

Notes

- 1 Total water includes rainwater and waste water from another organisation.
- 2 Sum of available data (for mills details are reported in individual tables).

ENVIRONMENTAL DATA 2021 CONTINUED

Total Group Operations

		All Operations				
		2021	2020	2019	2018	2017
Energy						
Electricity						
Co-generated ¹	GWh	2,196	2,192	2,218	2,282	2,413
Self-generated	GWh	1	1	1	8	15
Hydro power	GWh	5	5	4	4	4
Solar electricity generated on site	GWh	1	1	0		
Grid supply	GWh	2,907	2,841	2,876	2,356	2,344
Total electricity	GWh	5,109	5,040	5,099	4,650	4,778
Fuel Usage						
Biofuels	TJ	37,363	36,965	37,119	36,580	37,158
Fossil fuels	TJ	40,847	41,058	40,735	40,469	43,623
Total fuels	TJ	78,210	78,023	77,854	77,049	80,781
Water Withdrawal						
Surface	Mm ³	116.6	120.9	114.2	99.1	101.0
Ground	Mm ³	17.0	17.0	16.7	10.9	12.7
Grid	Mm ³	4.0	4.0	3.9	3.9	4.2
Total water ²	Mm ³	140.1	144.3	137.1	115.3	119.5
Discharges						
To Air						
CO ₂ fossil direct Scope 1	ktonnes	2,500	2,545	2,513	2,489	2,670
CO ₂ fossil indirect Scope 2	ktonnes	553	566	808	652	647
CO ₂ biogenic	ktonnes	4,176	4,073	4,066	3,944	4,038
Dust (particulate matter PM)	tonnes	344	383	596	631	666
NO _x as NO ₂	tonnes	4,128	4,400	4,971	5,072	5,385
SO _x as SO ₂	tonnes	2,176	2,395	2,237	2,694	2,569
To Water						
Process water	Mm ³	77.0	80.0	76.2	74.0	76.4
Cooling water	Mm ³	49.3	50.8	49.2	29.7	30.2
COD ³	tonnes	41,398	40,100	42,015	41,316	40,425
BOD ³	tonnes	14,849	15,399	17,449	15,022	14,988
Total suspended solids ³	tonnes	8,431	7,775	7,898	8,004	8,756
Total Nitrogen ³	tonnes	1,088	901	960	1,228	1,374
Total Phosphorous ³	tonnes	99	87	107	224	89
Wastes						
Total non-hazardous wastes	tonnes	915,257	856,862	903,341	853,599	851,241
Landfill	tonnes	426,106	442,038	539,450	519,000	504,522
Recovery	tonnes	475,022	405,801	350,287	323,045	325,585
Other	tonnes	14,129	9,022	13,604	11,553	21,133
Hazardous wastes	tonnes	8,774	10,046	9,655	10,614	8,242

Notes

- 1 CHP partly or totally outsourced.
- 2 Total water includes rainwater and waste water from another organisation.
- 3 Sum of available data (for mills details are reported in individual tables).

MANAGEMENT SYSTEM CERTIFICATIONS

Forestry, Wood Sourcing and Mills

		Quality Management System	Environmental Management System	Health and Safety System		Hygiene Management for Foodstuffs Packaging		Energy Management System	Chain of Custody		
		ISO 9001	ISO 14001	OHSAS 18001	ISO 45001	EN 15593	FSSC 22000	ISO 50001	FSC	PEFC	SFI
Europe											
Wood Sourcing											
ES	Central Forestal				YES				YES	YES	
FR	Comptoir du Pin				YES				YES	YES	
Virgin Mills											
AT	Nettingsdorf	YES	YES		YES	YES			YES	YES	
ES	Nervión	YES	YES		YES	YES		YES	YES	YES	
	Sangüesa	YES	YES		YES	YES			YES	YES	
FR	Facture	YES	YES		YES	YES			YES	YES	
SE	Piteå	YES	YES		YES		YES	YES	YES	YES	
Recycled Mills											
CZ	Morava	YES	YES		YES	YES		YES	YES	YES	
DE	Herzberger	YES	YES		YES	YES		YES	YES	YES	
	Hoya ¹	YES	YES		YES	YES		YES	YES	YES	
	Wrexen ¹	YES	YES		YES	YES		YES	YES	YES	
	Zülpich	YES	YES		YES	YES		YES	YES	YES	
ES	Mengibar	YES	YES		YES	YES			YES	YES	
FR	Alfa D'Avignon	YES	YES			YES			YES	YES	
	Rethel	YES	YES			YES			YES	YES	
	Saillat	YES	YES		YES	YES		YES	YES	YES	
IT	Ania	YES	YES		YES	YES			YES	YES	
NL	Parenco		YES					YES	YES	YES	
	Roermond	YES	YES		YES		YES	YES	YES	YES	
RS	Beograd	YES	YES				YES		YES		
UK	SSK	YES	YES		YES	YES		YES	YES	YES	
	Townsend Hook	YES	YES		YES	YES		YES	YES	YES	
The Americas											
Forestry											
CO	Colombian Forest								YES		
Virgin Mills											
CO	Cali		YES						YES		
Recycled Mills											
AR	Bernal		YES					YES	YES		
	Coronel Suárez		YES						YES		
BR	Bento	YES							YES		
	Pirapetinga	YES							YES		
	Uberaba	YES							YES		
CO	Barbosa		YES						YES		
	Barranquilla		YES						YES		
ME	Cerro Gordo	YES	YES						YES		
	Los Reyes	YES	YES						YES		
	Monterrey	YES	YES						YES		
USA	Forney		YES		YES				YES	YES	YES

Note

¹ Both Hoya and Wrexen consist of two mills on one site, data are aggregated data per site.

SOCIAL DATA

Social Citizenship and Health and Safety

	2021	2020	2019	2018	2017
Social Citizenship (Full-time Employees)					
Total number of employees ¹	48,045	46,688	46,237	44,959	46,418
of whom female (%) ²	20%	19%	19%	19%	19%
Employees leaving the company ³	4,919	4,017	4,842	6,224	1,666
of whom resignation and retirement (%)	69%	64%	64%	58%	74%
Employees joining the company ³	5,778	4,189	5,038	6,675	2,318
Age distribution (%)					
<20 years	1%	1%	1%	1%	1%
21-30 years	17%	16%	17%	17%	17%
31-40 years	25%	25%	24%	24%	25%
41-50 years	27%	27%	28%	28%	29%
51-60 years	26%	26%	25%	25%	24%
>60 years	5%	5%	5%	5%	4%
Employees turnover (%)	11.7%	9.8%	11.7%	15.5%	4.0%
Length of service, above 11 years (%)	46%	47%	48%	49%	49%
Female in management (%)	22%	22%	21%	19%	20%
Parental leave	1,225 employees took parental leave and 1,015 returned from parental leave	1,152 employees took parental leave and 900 returned from parental leave	1,178 employees took parental leave and 1,028 returned from parental leave	1,260 employees took parental leave and 1,126 returned from parental leave	1,095 employees took parental leave and 733 returned from parental leave
of whom female ⁶	371 female employees took parental leave and 238 returned				
Average training hours per employee	18.7	15	22	24	26
By gender ⁶	18.6 male/ 18.9 female				
Health and Safety					
Lost time accidents (LTA) (SK employees)	270	232	325	321	327
Lost time accidents (LTA) (contractors)	63	37	46	48	30
Days lost due to accidents (DLA) (SK employees)	9,090	9,413	11,177	10,683	11,711
Accident severity rate (ASR) (%) (SK employees)	10.39%	11.19%	13.15%	12.65%	13.88%
LTA Frequency Rate (FR)* (SK employees)	0.31	0.28	0.38	0.38	0.39
Total recordable injury rate ⁴	0.59	0.6	0.84	1.01	
Number of restricted workday cases (RWC) (SK employees) ⁵	107	104	135		
Number of medical treatment cases (MTC) (SK Employees) ⁵	137	165	253		
Number of medical treatment cases (MTC) (contractors) ⁶	9				
Total recordable injuries (LTA/RWC/MTC) ⁵	514	501	713		
Fatalities					
Own employees ⁷	0	0	0	0	2
Contractors ⁷	0	1	0	0	0
Subcontractors ⁷	1	1	2	0	0

The amount of contractors and sub-contractors in our business is relatively small. Contractors and sub-contractors are mainly supporting us in major construction and maintenance projects and represent our external suppliers.

Notes

1 Based on full-time equivalent of employees and contractors.

2 Based on SK employees only (excluding contractors).

3 This data has been derived from Hyperion Financial Management data system (HFM). Since 2018, all countries have registered in HFM, and data accuracy has improved.

This has led to an increase in the joiners and leavers data compared with 2017.

4 New indicator since 2018.

5 New indicator since 2019.

6 New indicator since 2021.

7 (Sub)contractors have been split into Contractors and Subcontractor since 2021.

* The amount of contractors and sub-contractors in our business is relatively small. Contractors and sub-contractors are mainly supporting us in major construction and maintenance projects and represent our external suppliers.

SOURCING DATA

Sustainable Sourcing and Sustainable Fibre Data

	2021	2020	2019	2018	2017
Sustainable Sourcing data					
Number of audit activities					
Suppliers of key materials	9	21	35	21	51
Tactical and other suppliers	13	25	77	53	60
Satisfactory scores					
Suppliers of key materials	8	20	29	20	45
Tactical and other suppliers	11	24	65	43	46
Sustainable Fibre					
Wood supplied from certified forests ¹	56.2%	57.3%	58%	55%	57%
Wood supplied from non-controversial sources ¹	43.8%	42.7%	42%	45%	43%
Paper produced as certified ¹	92.8%	92.7%	93%	91%	91%
Packaging sold as certified ¹	93.45%	93.8%	92.1%	88.4%	88.0%
External papers purchased through CoC certified supply chains ¹	99.47%	99.2%	98.9%	99.5%	98.5%
Recycled fibres in global production	75.6%	75.4%	75.8%	74.5%	74.4%

Notes

1 FSC, PEFC or SFI CoC certified and FSC Controlled Wood.

PROTECTED AREAS AND BIODIVERSITY

Smurfit Kappa Operations Within or Adjacent to Legally Protected Area or to Areas of High Biodiversity Value

Some of our European sites operates partly in or are adjacent to areas classified by Natura 2000.

Location	Type Plant	Specifics	Status	Area
Austria				
Nettingsdorf	Paper mill	Site adjacent to a protected area	Natura 2000	Hangwälder Ritzlhof AT3147000
Czech Republic				
Morava	Paper mill	Site adjacent to a protected area	Natura 2000	Údolí Moravice CZ0813474
France				
Alfa d'Avignon	Paper mill	Site adjacent to a protected area	Natura 2000	Le Rhône aval FR9301590
Aquitaine	Corrugated site	Site adjacent to a protected area	Natura 2000	Vallée du Ciron FR7200693
Facture	Paper mill	Site partly located in the protected area	ZNIEFF type 1 ZNIEFF type 2 Natura 2000 LPO ZICO	Zone inondable de la basse Leyre Vallées de la grande et de la petite Leyre Vallées de la grande et de la petite Leyre AN1
Germany				
Delitsch	Corrugated site	Site adjacent to a protected area	Natura 2000	Agrarraum und Bergbaufolgelandschaft bei Delitzsch DE4439452
Heppenheim	Board converting site	Site adjacent to a protected area	Natura 2000	Hinterer Bruch südlich Heppenheim DE6317306
Herzberg	3 activities (board mill & corrugated site & converting plan)	Site adjacent to a protected area	Natura 2000 Naturpark Harz	Sieber, oder, Rhume DE 4228331 N°4229-402
Lauenburg	Corrugated site	Site adjacent to a protected area	Natura 2000	Elbe mit Hohem Elbufer von Tesperhude bis Lauenburg mit angr. Fl. DE2628392
St Leon	Corrugated site	Site adjacent to a protected area	Natura 2000	Lußhardt zwischen Reilingen & Karlsdorf DE6717341
Wrexen	Paper mill	Site adjacent to a protected area	Natura 2000	Vogelschutzgebiet Egge DE4419401
The Netherlands				
Parenco	Paper mill	Site adjacent to a protected area	Natura 2000	Rijntakken NL2014038 Veluwe NL3009017
Spain				
Nervión	Paper mill	Site adjacent to a protected area	Natura 2000	Urkiola Natural Park ES213009
Vigo	Corrugated site	Site adjacent to a protected area	Natura 2000	Gándaras de Budiño ES1140011
Sweden				
Eslöv	Corrugated site	Site adjacent to a protected area	Natura 2000	Abullahagen SE0430119
Piteå	Paper mill	Site adjacent to a protected area	Natura 2000	Svensbyfjärden SE0820711

Some Other Sites are Adjacent to Sites Protected by National or Local Status

Location	Type Plant	Specifics	Status	Area
Belgium				
Turnhout	Corrugated site	Site adjacent to a protected area	National legislation	Nature reserve 'Frans Segers'
Denmark				
Kolding	Corrugated site	Site adjacent to a protected area	National legislation	Kolding Havn
Ecuador				
Ecuador sacks	Sack plant	Site adjacent to a protected area	Local legislation	Cerro blanco forest (White forest hill)
France				
Dore	Corrugated site	Site located in a protected area	Local legislation	Parc naturel régional Livradois-Forez
Germany				
Hoya	Paper mill	Site adjacent to a protected area	National legislation	2 : Wiedsee & Bürgerpark
Lübeck	Corrugated site	Site adjacent to a protected area	National legislation	Schellbruch
Schneverdingen	Corrugated site	Site located in a protected area	Local legislation	Water reserve
The Netherlands				
R. Eindhoven	Corrugated site	Site located in a protected area	Local legislation	Philipps de Jongh park
United Kingdom				
Townsend Hook	Paper mill	Site adjacent to a protected area	Local legislation	Holborough and Burham Marshes SSSI

Water Courses where Smurfit Kappa Withdraws or Releases Water that are Classified Sensitive or Protected

- Piteå: paper mill in Sweden discharge process water in the estuary Vargödraget which is classified as protected area Natura 2000 (SE 0820330)

Biodiversity

Threatened species recorded on Smurfit Kappa Colombia Forestry Division's properties

Group	Total	Critical Risk	Endangered	Vulnerable
Birds	19	0	5	14
Flora	22	1	10	11
Mammals	11	1	2	8
Amphibian	1	0	0	1
Total	53	2	17	34

Smurfit Kappa take in consideration the ICUN: International Union for Conservation of Nature, CITES: International Trade in Endangered Species of Wild Fauna and Flora and MADS: Ministry of Environment and Sustainable Development Colombia.