

Supporting data





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Input/Output 2020

Europe

Input

Wood and fibre		
Wood ¹	4,913	ktonnes ar
Market virgin pulp	81.6	ktonnes ar
Other pulp	20.0	ktonnes ar
Recovered paper	4,813	ktonnes ar
Paper or board purchased	1,470	ktonnes ar
Plastic films, other plastic item (BIB)	26.6	ktonnes
Starch (all types)	293	ktonnes ar
Inorganic raw materials	311	ktonnes ar
Other organic raw materials	174	ktonnes ar

Energy		
Energy from fossil fuels	28,635	TJ (terajoule)
Energy from purchased biofuels	5,582	TJ
Electricity from grid	2,180	GWh

Water		
Water intake ²	114	Mm ³

Output

Production		
Papers (all grades)	5,575	ktonnes
Corrugated packaging*	5,138	ktonnes
Board and laminated boards*	398	ktonnes
Converted board*	112	ktonnes
Sacks*	–	ktonnes
Other packaging	25.8	ktonnes

Direct emissions to air		
CO ₂ fossil	1,711	ktonnes
CO ₂ biogenic	3,454	ktonnes
Dust from fuels	0.21	ktonnes
SO _x from processes	0.87	ktonnes
NO _x from processes	3.1	ktonnes

Energy output		
Electricity to third party	304	GWh
Thermal energy to third party	167	TJ
Biomass sold	607	TJ

Wastes		
Hazardous wastes	8.8	ktonnes
Non-hazardous wastes sent to landfill	219	ktonnes
Non-hazardous wastes recovered	387	ktonnes
Other non-hazardous wastes	8.8	ktonnes

Discharges to water		
Water released	104	Mm ³
COD	26.6	ktonnes
BOD	10.9	ktonnes
Total suspended solids	5.0	ktonnes
Nitrogen	0.46	ktonnes
Phosphorous	0.063	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 76 to 77. The latter pages show the energy consumption for the production of the paper or board manufactured.

Input/Output 2020

The Americas

Input

Wood and fibre		
Wood ¹	891	ktonnes ar
Market virgin pulp	2.71	ktonnes ar
Other pulp	3.16	ktonnes ar
Recovered paper	1,454	ktonnes ar
Paper or board purchased	528	ktonnes ar
Plastic films, other plastic item (BIB)	4.72	ktonnes
Starch (all types)	66.6	ktonnes ar
Inorganic raw materials	59.4	ktonnes ar
Other organic raw materials	57.7	ktonnes ar

Energy

Energy from fossil fuels	13,082	TJ
Energy from purchased biofuels	1,843	TJ
Electricity from grid	850	GWh

Water

Water intake ²	30.4	Mm ³
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Output

Production		
Papers (all grades)	1,474	ktonnes
Corrugated packaging*	1,533	ktonnes
Board and laminated boards*	111	ktonnes
Converted board*	78.8	ktonnes
Sacks*	60.3	ktonnes
Other packaging	4.24	ktonnes

Direct emissions to air

CO ₂ fossil	870	ktonnes
CO ₂ biogenic	639	ktonnes
Dust from fuels	0.17	ktonnes
SO _x from processes	1.53	ktonnes
NO _x from processes	1.28	ktonnes

Energy output

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

Wastes

Hazardous wastes	1.23	ktonnes
Non-hazardous wastes sent to landfill	223	ktonnes
Non-hazardous wastes recovered	18.8	ktonnes
Other non-hazardous wastes	0.21	ktonnes

Discharges to water

Water released	27.2	Mm ³
COD	13.5	ktonnes
BOD	4.49	ktonnes
Total suspended solids	2.76	ktonnes
Nitrogen	0.44	ktonnes
Phosphorous	0.024	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 with those on pages 78 to 79. The latter pages show the energy consumption for the production of the paper or board manufactured.

Environmental Data 2020

Paper and Board Mills, Europe

		Nettingsdorf, Austria	Sangüesa, Spain	Facture, France	Piteå, Sweden	Morava, Czech Republic	Wrexen, Germany ⁵	Hoya, Germany ⁵	Zülpich, Germany	Mengíbar, Spain
		bkl, tl	mg paper	bkl, wtkl, wtcl	bkl, wtkl	tl, fl	wtcl, sb, fl, tl	tl, fl, cart	fl, tl	fl, tl
Production	ktonnes	433	77	468	693	75	296	442	494	232
Energy										
Electricity										
Co-generated	GWh	150	44	337 ¹	316	–	57	128	169	101
Self-generated	GWh	–	–	–	–	–	–	–	–	–
Hydro power	GWh	–	–	–	–	2.8	0.1	–	–	–
Net grid supply	GWh	137	94	31	262	21	36	42	24	– ²
Solar electricity generated on site	GWh	–	–	–	–	–	–	–	–	–
Total electricity	GWh	286	139	368	578	24	94	170	193	101
Fuel usage										
Biofuels	TJ	4,146	1,942	8,095	10,416	17	61	75	325	–
Fossil fuels	TJ	824	230	674	151	336	1,337	2,492	2,833	1,701
Total fuels	TJ	4,970	2,172	8,769	10,567 ³	353	1,398	2,567	3,158	1,701
Water withdrawal										
Surface	Mm ³	15.6	4.6	7.6	30.8	0.4	0.5	–	1.5	1.3
Ground	Mm ³	–	–	0.6	–	0.0	0.6	2.3	0.4	0.0
Grid	Mm ³	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0
Total water ⁴	Mm ³	15.8	4.8	8.8	31.4	0.4	1.1	2.5	2.0	1.4
Discharges										
To air										
CO ₂ fossil direct	ktonnes	46	15	39	13	19	75	140	223	95
CO ₂ fossil indirect	ktonnes	–	27	2	3	11	15	17	10	–
CO ₂ biogenic	ktonnes	509	207	970	1,108	1	5	7	37	6
Dust	tonnes	31.6	4.7	42.3	101.7	0.2	0.0	0.0	0.0	0.1
NO _x as NO ₂	tonnes	298	107	600	652	8	37	117	194	90
SO _x as SO ₂	tonnes	50	87	73	59	1	1	2	82	84
To water										
Process water	Mm ³	5.67	4.30	9.50	12.51	0.32	0.30	1.83	–	1.03
Cooling water	Mm ³	7.33	–	–	18.80	–	0.48	0.08	1.13	–
COD	tonnes	8,040	282	3,551	1,795	37	65	232	–	574
BOD	tonnes	5,023	45	1,007	225	1	3	13	–	15
Total suspended solids	tonnes	858	96	593	255	5	4	67	–	275
Total Nitrogen	tonnes	43.4	12.2	97.7	38.0	4.9	0.5	19.3	–	38.4
Total Phosphorous	tonnes	3.7	0.6	13.5	10.0	0.4	0.1	2.1	–	3.5
Wastes										
Total non-hazardous wastes	tonnes	19,942	13,291	70,101	36,007	9,688	9,965	33,327	20,583	24,219
Landfill	tonnes	3,171	3,546	8,513	2,528	4,677	–	–	6,475	24,097
Recovery	tonnes	16,772	9,745	61,588	33,479	5,011	9,834	33,281	14,108	122
Other	tonnes	–	–	–	–	–	131	46	–	–
Hazardous wastes	tonnes	264	377	605	230	17	18	69	2,356	20

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 italic: mills that do not discharge their process water to surface.

Alfa d'Avignon, France	Rethel, France	Saillat, France	Ania, Italy	Roermond, the Netherlands	Parencio, the Netherlands	Beograd, Serbia	SSK, United Kingdom	Townsend Hook, United Kingdom	Herzberger, Germany	Nervión, Spain	Total mills
tl	tl	fl, tl	tl, fl	tl, fl	fl, grap pap, tl	tl, fl	tl, fl	fl, tl	sb	sack p	
73	66	241	221	639	580	108	202	232	251	153	5,973
–	–	43 ¹	66	121	–	–	59	75	71	125	1,863
0.0	–	–	–	–	–	–	–	–	0.0	0.0	0.0
–	–	1.1	–	–	–	–	–	–	0.9	–	5.0
26	24	67	– ²	57	384	48	–	13	20	59	1,345
–	–	–	–	–	–	–	–	–	–	–	–
26	24	111	66	178	384	48	59	89	92	185	3,214
–	7	147	51	243	1,198	–	38	52	–	3,469	30,282
340	271	1,250	1,338	2,758	1,591	590	1,293	1,775	1,578	115	23,474
340	278	1,397	1,388	3,000	2,789	590	1,331	1,827	1,578	3,584	53,757
1.0	–	1.8	–	2.3	19.6	1.6	–	1.0	3.8	2.8	96.2
–	0.4	–	1.6	–	5.4	–	1.0	0.6	0.0	–	12.9
–	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.8
1.1	0.5	1.8	1.6	2.5	25.2	1.6	1.2	1.6	3.8	3.0	112.0
19	15	70	75	156	91	56	73	100	89	7	1,416
2	2	5	–	–	–	38	–	–	8	17	157
1	3	15	4	20	146	–	4	7	–	369	3,417
0.0	0.0	0.6	0.0	0.0	2.3	2.1	0.0	0.0	2.0	20.0	207.5
20	8	33	35	136	144	80	106	51	36	281	3,032
5	13	1	0	22	6	300	1	4	5	33	827
0.64	0.40	1.40	1.40	1.98	4.88	1.19	0.87	0.76	1.34	2.27	52.60
0.21	–	–	–	–	19.59	–	–	0.54	2.26	–	50.42
150	46	170	136	326	685	2,245	4,832	114	138	1,427	24,846
60	2	3	15	7	21	1,186	2,475	4	9	340	10,455
12	8	45	19	29	219	361	1,557	31	24	153	4,612
5.3	5.9	26.7	18.0	45.1	45.2	4.0	11.6	11.0	2.3	1.4	430.7
1.3	0.6	1.3	1.3	3.2	5.9	0.8	12.5	0.6	0.5	0.2	62.2
3,569	2,155	17,941	15,395	45,012	60,437	21,329	23,184	25,176	26,580	82,618	560,518
753	1,566	17,736	3,648	6,865	26,398	7,830	8,860	5,123	–	81,079	212,863
2,816	589	205	11,747	38,020	34,039	13,498	14,324	19,981	26,374	1,539	347,073
–	–	–	–	128	–	–	0	72	206	–	583
22	1	77	62	13	98	1	96	22	43	11	4,401

bkl: brown kraftliner
cart: carton board
fl: recycled fluting
grap p: graphic paper

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

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

Environmental Data 2020

Paper and Board Mills, The Americas

		Bernal, Argentina	Coronel Suárez, Argentina	Bento, Brazil	Pirapetinga, Brazil	Uberaba, Brazil
		ti, fi	ti, fi	fi, ti	fi, ti, wttl	ti, fi
Production	ktonnes	66	48	49	121	59
Energy						
Electricity						
Co-generated	GWh	–	–	–	–	–
Self-generated	GWh	–	–	–	–	0.0
Hydro power	GWh	–	–	–	–	–
Solar electricity generated on site	GWh	–	–	–	–	–
Net grid supply	GWh	31	14	18	58	34
Total electricity	GWh	31	14	18	58	34
Fuel usage						
Biofuels	TJ	–	–	372	923	468
Fossil fuels	TJ	383	294	2	38	6
Total fuels	TJ	383	294	373	960	475
Water withdrawal						
Surface	Mm ³	–	–	0.1	1.0	–
Ground	Mm ³	0.7	0.2	–	–	0.4
Grid	Mm ³	0.0	–	0.0	0.0	–
Total water ¹	Mm ³	0.7	0.2	0.2	1.0	0.4
Discharges						
To air						
CO ₂ fossil direct	ktonnes	22	16	0	3	0
CO ₂ fossil indirect	ktonnes	11	5	2	7	4
CO ₂ biogenic	ktonnes	0	–	40	99	46
Dust	tonnes	0.0	0.0	56.3	42.9	25.9
NO _x as NO ₂	tonnes	26	25	54	120	48
SO _x as SO ₂	tonnes	3	0	0	7	0
To water						
Process water	Mm ³	0.39	0.15	–	0.64	0.26
Cooling water	Mm ³	0.27	–	–	–	–
COD	tonnes	53	91	–	222	446
BOD	tonnes	7	9	–	80	157
Total suspended solids	tonnes	5	20	–	41	61
Total Nitrogen	tonnes	4.5	0.9	–	3.8	1.6
Total Phosphorous	tonnes	0.1	0.1	–	0.8	0.4
Wastes						
Total non-hazardous wastes	tonnes	5,798	3,620	3,673	15,552	7,014
Landfill	tonnes	1,780	3,620	2,827	15,388	6,933
Recovery	tonnes	4,018	–	846	164	81
Other	tonnes	–	–	–	–	–
Hazardous wastes	tonnes	32	11	12	13	6

Notes

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

Water discharges in italic: 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
	p&w, sc fl, sack p, cart, bkl, pulp, wtkl, wttl	tl, fl	fl, tl	fl, tl	tl, cart, fl	fl, tl	tl, fl	
	261	60	110	125	323	33	330	1,584
	212	31	48	–	–	–	38	329
	–	–	0.0	–	–	–	–	0.0
	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	–	–
	116	2	5	68	158	20	107	632
	328	34	53	68	158	20	145	960
	4,265	–	–	–	–	–	271	6,298
	5,437	613	706	719	1,433	252	1,613	11,495
	9,702	613	706	719	1,433	252	1,883	17,793
	22.1	0.6	0.9	–	–	–	–	24.6
	0.2	–	–	0.4	1.4	0.1	–	3.5
	–	0.0	–	–	–	0.1	1.2	1.2
	22.3	0.6	0.9	0.6	1.4	0.2	1.2	29.6
	423	34	47	40	81	14	91	771
	–	–	–	33	76	9	45	191
	397	–	–	–	–	0	33	615
	37.2	1.5	1.2	0.0	1.7	0.0	2.2	168.8
	765	19	56	22	34	10	57	1,236
	1,366	0	86	0	1	0	23	1,486
	21.95	0.44	0.75	0.31	0.87	0.09	0.72	26.56
	–	–	–	–	–	–	–	0.27
	5,700	1,800	3,181	65	775	44	1,071	13,449
	1,659	784	1,364	4	90	7	285	4,447
	1,428	142	591	4	98	16	292	2,698
	356.5	6.7	7.6	1.9	9.4	0.8	42.8	436.3
	11.4	0.5	1.6	0.9	2.2	0.3	5.1	23.5
	64,953	3,064	7,734	11,814	46,227	4,608	48,078	222,136
	62,863	2,338	6,396	11,483	45,514	4,552	47,887	211,580
	2,090	726	1,338	332	713	56	191	10,556
	–	–	–	–	–	–	–	–
	141	13	6	10	34	5	0	282

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

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

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

Environmental Data 2020

Operations Total, Europe

		Paper and Board Mills	Integrated Corrugated Operations	Other Packaging Operations	Other Operations	Total Operations
Production	ktonnes	5,973	4,832	444	2,670	
Energy						
Electricity						
Co-generated	GWh	1,863	–	–	–	1,863
Self-generated	GWh	0	1	–	–	1
Hydro power	GWh	5	–	–	–	5
Solar electricity generated on site	GWh	–	–	–	–	–
Net grid supply	GWh	1,345	559	87	4	1,995
Total electricity	GWh	3,214	559	87	4	3,864
Fuel usage						
Biofuels	TJ	30,282	163	1	–	30,446
Fossil fuels	TJ	23,474	4,294	134	75	27,976
Total fuels	TJ	53,757	4,456	134	75	58,422
Water withdrawal						
Surface	Mm ³	96.2	0.0	–	–	96.2
Ground	Mm ³	12.9	0.3	0.0	–	13.2
Grid	Mm ³	0.8	1.4	0.1	0.0	2.3
Total water ¹	Mm ³	112.0	1.8	0.1	0.0	113.8
Discharges						
To air						
CO ₂ fossil direct	ktonnes	1,416	245	8	6	1,674
CO ₂ fossil indirect	ktonnes	157	124	20	1	301
CO ₂ biogenic	ktonnes	3,417	17	0	–	3,435
Dust	tonnes	207	3	0	0	211
NO _x as NO ₂	tonnes	3,032	85	3	4	3,124
SO _x as SO ₂	tonnes	827	35	1	3	867
To water						
Process water	Mm ³	52.6	0.7	0.0	–	53.3
Cooling water	Mm ³	50.4	0.1	0.0	–	50.5
COD ²	tonnes	24,846	1,727	–	–	26,573
BOD ²	tonnes	10,455	455	–	–	10,910
Total suspended solids ²	tonnes	4,612	405	–	–	5,017
Total Nitrogen ²	tonnes	431	30	–	–	460
Total Phosphorous ²	tonnes	62	1	–	–	63
Wastes						
Total non-hazardous wastes	tonnes	560,518	40,487	6,455	6,967	614,428
Landfill	tonnes	212,863	4,101	617	1,018	218,599
Recovery	tonnes	347,073	28,560	5,447	5,936	387,016
Other	tonnes	583	7,826	391	13	8,813
Hazardous wastes	tonnes	4,401	3,864	544	3	8,811

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 2020

Operations Total, The Americas

		Paper and Board Mills	Other Operations	Total Operations
Production	ktonnes	1,584	3,419	
Energy				
Electricity				
Co-generated	GWh	329	–	329
Self-generated	GWh	0	1	1
Hydro power	GWh	–	–	–
Solar electricity generated on site	GWh	–	1	1
Net grid supply	GWh	632	215	846
Total electricity	GWh	960	216	1,176
Fuel usage				
Biofuels	TJ	6,298	221	6,519
Fossil fuels	TJ	11,495	1,587	13,082
Total fuels	TJ	17,793	1,809	19,601
Water withdrawal				
Surface	Mm ³	24.6	0.1	24.7
Ground	Mm ³	3.5	0.3	3.8
Grid	Mm ³	1.2	0.4	1.7
Total water ¹	Mm ³	29.6	0.8	30.4
Discharges				
To air				
CO ₂ fossil direct	ktonnes	771	100	870
CO ₂ fossil indirect	ktonnes	191	74	265
CO ₂ biogenic	ktonnes	615	23	639
Dust	tonnes	169	3	172
NO _x as NO ₂	tonnes	1,236	40	1,276
SO _x as SO ₂	tonnes	1,486	43	1,529
To water				
Process water	Mm ³	26.6	0.1	26.7
Cooling water	Mm ³	0.27	0.00	0.27
COD ²	tonnes	13,449	78	13,527
BOD ²	tonnes	4,447	42	4,489
Total suspended solids ²	tonnes	2,698	60	2,758
Total Nitrogen ²	tonnes	436.3	4.1	440.4
Total Phosphorous ²	tonnes	23.5	0.2	23.7
Wastes				
Total non-hazardous wastes	tonnes	222,136	20,298	242,434
Landfill	tonnes	211,580	11,859	223,439
Recovery	tonnes	10,556	8,230	18,785
Other	tonnes	–	209	209
Hazardous wastes	tonnes	282	952	1,234

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 2020

Total Group Operations

		All Operations				
		2020	2019	2018	2017	2016
Energy						
Electricity						
Co-generated ¹	GWh	2,192	2,218	2,282	2,413	2,297
Self-generated	GWh	1	1	8	15	33
Hydro power	GWh	5	4	4	4	5
Solar electricity generated on site	GWh	1	–	–	–	–
Grid supply	GWh	2,841	2,876	2,356	2,344	2,422
Total electricity	GWh	5,040	5,099	4,650	4,778	4,757
Fuel usage						
Biofuels	TJ	36,965	37,119	36,580	37,158	36,014
Fossil fuels	TJ	41,058	40,735	40,469	43,623	43,802
Total fuels	TJ	78,023	77,854	77,049	80,781	79,816
Water withdrawal						
Surface	Mm ³	120.9	114.2	99.1	101.0	102.2
Ground	Mm ³	17.0	16.7	10.9	12.7	13.7
Grid	Mm ³	4.0	3.9	3.9	4.2	4.0
Total water ²	Mm ³	144.3	137.1	115.3	119.5	121.2
Discharges						
To air						
CO ₂ fossil direct	ktonnes	2,545	2,513	2,489	2,670	2,684
CO ₂ fossil indirect	ktonnes	566	808	652	647	691
CO ₂ biogenic	ktonnes	4,073	4,066	3,944	4,038	3,936
Dust	tonnes	383	596	631	666	590
NO _x as NO ₂	tonnes	4,400	4,971	5,072	5,385	5,313
SO _x as SO ₂	tonnes	2,395	2,237	2,694	2,569	3,034
To water						
Process water	Mm ³	80.0	76.2	74.0	76.4	77.1
Cooling water	Mm ³	50.8	49.2	29.7	30.2	33.9
COD ³	tonnes	40,100	42,015	41,316	40,425	41,794
BOD ³	tonnes	15,399	17,449	15,022	14,988	14,326
Total suspended solids ³	tonnes	7,775	7,898	8,004	8,756	8,596
Total Nitrogen ³	tonnes	901	960	1,228	1,374	983
Total Phosphorous ³	tonnes	87	107	224	89	126
Wastes						
Total non-hazardous wastes	tonnes	856,862	903,341	853,599	851,241	847,521
Landfill	tonnes	442,038	539,450	519,000	504,522	487,186
Recovery	tonnes	405,801	350,287	323,045	325,585	347,328
Other	tonnes	9,022	13,604	11,553	21,133	13,007
Hazardous wastes	tonnes	10,046	9,655	10,614	8,242	6,826

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

	2020	2019	2018	2017	2016
Social citizenship (full-time employees)					
Total number of employees ¹	46,685	46,237	44,959	46,418	45,314
of whom female (%) ²	19%	19%	19%	19%	18%
Employees leaving the company ³	4,017	4,842	6,224	1,666	1,687
of whom resignation and retirement (%)	64%	64%	58%	74%	64%
Employees joining the company ³	4,189	5,038	6,675	2,318	2,054
Age distribution (%)					
<20 years	1%	1%	1%	1%	1%
21-30 years	16%	17%	17%	17%	17%
31-40 years	25%	24%	24%	25%	25%
41-50 years	27%	28%	28%	29%	29%
51-60 years	26%	25%	25%	24%	24%
>60 years	5%	5%	5%	4%	4%
Employees turnover (%)	9.8%	11.7%	15.5%	4.0%	4.1%
Length of service, above 11 years (%)	47%	48%	49%	49%	50%
Female in management (%)	22%	21%	19%	20%	19%
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	490 employees took parental leave and 401 returned from parental leave
Average training hours per employee	15	22	24	26	20
Health and Safety					
Lost time accidents (LTA)	232	325	321	327	352
Contractor lost time accidents (CLTA)	37	46	48	30	45
Days lost due to accidents (DLA)	9,413	11,177	10,683	11,711	11,166
Accident severity rate (ASR) (%)	11.19%	13.15%	12.65%	13.88%	13.43%
Frequency rate (FR)	0.28	0.38	0.38	0.39	0.42
Total Recordable Injury Rate ⁴	0.60	0.84	1.01		
Number of Restricted Workday Cases (RWC) (SK Employees) ⁵	104	135			
Number of Medical Treatment Cases (MTC) (SK Employees) ⁵	165	253			
Total Recordable Injuries (LTA/RWC/MTC) ⁵	501	713			
Fatalities					
Own employees	0	0	0	2	1
(Sub) contractors	2	3	0	0	1

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.

Sourcing Data

Sourcing and Sustainable Fibre Data

	2020	2019	2018	2017	2016
Sourcing data					
Number of audit activities					
Suppliers of key materials	21	35	21	51	55
Tactical and other suppliers	25	77	53	60	30
Satisfactory scores					
Suppliers of key materials	20	29	20	45	52
Tactical and other suppliers	24	65	43	46	22
Sustainable fibre					
Wood supplied from certified forests ¹	57.3%	58%	55%	57%	59%
Wood supplied from non-controversial sources ¹	42.7%	42%	45%	43%	41%
Paper produced as certified ¹	92.7%	93%	91%	91%	91%
Packaging sold as certified ¹	93.8%	92.1%	88.4%	88.0%	74.0%
External papers purchased through CoC certified supply chains ¹	99.2%	98.9%	99.5%	98.5%	²
Recycled fibres in global production	75.4%	75.8%	74.5%	74.4%	74.0%

Notes

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

² Data not assured.