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Input/Output 2019

Europe

Input

Wood and fibre		
Wood ¹	4,934	ktonnes ar
Market virgin pulp	78	ktonnes ar
Other pulp	19	ktonnes ar
Recovered paper	4,669	ktonnes ar
Paper or board purchased	1,542	ktonnes ar
Plastic films, other plastic item (BIB)	24	ktonnes
Starch (all types)	293	ktonnes ar
Inorganic raw materials	362	ktonnes ar
Other organic raw materials	173	ktonnes ar

Energy

Energy from fossil fuels	28,201	TJ (terajoule)
Energy from purchased biofuels	5,375	TJ
Electricity from grid	2,217	GWh

Water

Water intake ²	107	Mm ³
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Output

Production		
Papers (all grades)	5,431	ktonnes
Corrugated packaging*	5,050	ktonnes
Board and laminated boards*	410	ktonnes
Converted board*	110	ktonnes
Sacks*	–	ktonnes
Other packaging	23	ktonnes

Direct emissions to air

CO ₂ fossil	1,667	ktonnes
CO ₂ biogenic	3,403	ktonnes
Dust from fuels	0.40	ktonnes
SO _x from processes	0.75	ktonnes
NO _x from processes	3.6	ktonnes

Energy output

Electricity to third party	306	GWh
Thermal energy to third party	314	TJ
Biomass sold	577	TJ

Wastes

Hazardous wastes	7.9	ktonnes
Non-hazardous wastes sent to landfill	231	ktonnes
Non-hazardous wastes recovered	333	ktonnes
Other non-hazardous wastes	11	ktonnes

Discharges to water

Water released	99	Mm ³
COD	26	ktonnes
BOD	12	ktonnes
Total suspended solids	4.8	ktonnes
N	0.45	ktonnes
P	0.062	ktonnes

Notes

- Wood and sawmill chips as delivered to the mill.
 - Water intake includes rainwater and waste water from another operation ktonnes ar: kilotonnes as received.
- * Partly produced with Smurfit Kappa paper or board.

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 74 to 75. The latter pages show the energy consumption for the production of the paper or board manufactured.

Input/Output 2019

The Americas

Input

Wood and fibre		
Wood ¹	870	ktonnes ar
Market virgin pulp	3.5	ktonnes ar
Other pulp	3.9	ktonnes ar
Recovered paper	1,501	ktonnes ar
Paper or board purchased	404	ktonnes ar
Plastic films, other plastic item (BIB)	3.6	ktonnes
Starch (all types)	67	ktonnes ar
Inorganic raw materials	64	ktonnes ar
Other organic raw materials	59	ktonnes ar

Energy

Energy from fossil fuels	13,222	TJ
Energy from purchased biofuels	2,235	TJ
Electricity from grid	857	GWh

Water

Water intake ²	30	Mm ³
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Output

Production		
Papers (all grades)	1,523	ktonnes
Corrugated packaging*	1,579	ktonnes
Board and laminated boards*	94	ktonnes
Converted board*	73	ktonnes
Sacks*	54	ktonnes
Other packaging	3.2	ktonnes

Direct emissions to air

CO ₂ fossil	885	ktonnes
CO ₂ biogenic	700	ktonnes
Dust from fuels	0.20	ktonnes
SO _x from processes	1.5	ktonnes
NO _x from processes	1.4	ktonnes

Energy output

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

Wastes

Hazardous wastes	1.7	ktonnes
Non-hazardous wastes sent to landfill	309	ktonnes
Non-hazardous wastes recovered	17	ktonnes
Other non-hazardous wastes	2.6	ktonnes

Discharges to water

Water released	27	Mm ³
COD	16	ktonnes
BOD	5.7	ktonnes
Total suspended solids	3.1	ktonnes
N	0.51	ktonnes
P	0.05	ktonnes

Notes

- Wood and sawmill chips as delivered to the mill.
 - Water intake includes rainwater and waste water from another operation ktonnes ar: kilotonnes as received.
- * Partly produced with Smurfit Kappa paper or board.

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 76 to 77. The latter pages show the energy consumption for the production of the paper or board manufactured.

Environmental Data 2019

Paper and Board Mills, Europe

		Nettingsdorf, Austria	Sanguesa, Spain	Facture, France	Piteå, Sweden	Morava, Czech Republic	Wrexen, Germany ⁵	Hoya, Germany ⁵	Zülpich, Germany	Mengibar, Spain	Alfa d'Avignon, France	Rethel, France	Saillat, France	Ania, Italy	Roermond, the Netherlands	Parencó, the Netherlands	SSK, United Kingdom	Townsend Hook, United Kingdom	Herzberger, Germany	Nervión, Spain	Total mills
		bkl, tl	mg paper	bkl, wrkl	bkl, wrtkl, wrtl	tl, fl	wrtl, sb, fl, tl	tl, fl, cart	fl, tl	fl, tl	tl	tl	fl, tl	fl, tl	tl, fl	grap pap, fl, tl	tl, fl	fl, tl	sb	sack p	
Production	ktonnes	431	81	483	663	66	302	449	489	233	72	66	256	226	610	579	206	226	259	146	5,841
Energy																					
Electricity																					
Co-generated	GWh	153	51	350 ¹	314	–	65	129	167	105	–	–	44 ¹	68	113	–	59	74	75	118	1,886
Self-generated	GWh	–	–	–	–	–	–	–	–	–	0.0	–	–	–	–	–	–	–	0.0	–	0.0
Hydro power	GWh	–	–	–	–	1.6	0.1	–	–	–	–	–	1.5	–	–	–	–	–	0.8	–	4.0
Net grid supply	GWh	121	89	24	256	21	30	43	26	– ²	28	23	67	– ²	52	403	– ²	11	16	65	1,274
Total electricity	GWh	274	140	374	570	22	95	171	193	105	28	23	113	68	165	403	59	86	92	183	3,164
Fuel usage																					
Biofuels	TJ	3,650	2,002	8,755	9,839	16	55	50	335	–	–	0	103	56	226	1,202	30	63	–	3,390	29,771
Fossil fuels	TJ	1,017	197	715	149	326	1,466	2,575	2,836	1,539	347	272	1,354	1,351	2,645	1,557	1,279	1,673	1,615	120	23,033
Total fuels	TJ	4,667	2,198	9,470	9,987*	342	1,521	2,624	3,171	1,539	347	272	1,457	1,407	2,871	2,759	1,309	1,736	1,615	3,510	52,805
Water withdrawal																					
Surface	Mm ³	12.7	4.5	7.9	28.5	0.4	0.5	–	1.7	1.3	0.6	–	1.8	–	2.0	19.5	–	1.0	4.4	2.8	89.5
Ground	Mm ³	–	–	0.7	–	0.0	0.7	2.2	0.4	0.0	–	0.4	–	1.6	–	5.4	1.0	0.6	0.0	–	12.9
Grid	Mm ³	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0	–	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.8
Total water ⁴	Mm ³	12.9	4.6	9.1	29.0	0.4	1.2	2.4	2.1	1.3	0.6	0.4	1.8	1.7	2.2	25.2	1.1	1.6	4.4	3.0	105.3
Discharges																					
To air																					
CO ₂ fossil direct	ktonnes	58	13	41	13	18	82	145	226	86	19	15	76	75	150	89	72	94	90	8	1,371
CO ₂ fossil indirect	ktonnes	–	22	1	3	11	13	19	11	–	1	1	4	–	24	187	0	3	7	16	325
CO ₂ biogenic	ktonnes	404	212	1,051	1,048	1	4	6	35	7	1	3	11	4	18	150	3	10	–	379	3,349
Dust	tonnes	54.3	6.6	46.0	246.5	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.6	0.0	0.0	1.8	0.0	0.0	1.5	33.9	391.7
NO _x as NO ₂	tonnes	376	96	764	621	7	42	98	221	422	17	8	33	34	126	153	106	43	36	275	3,478
SO _x as SO ₂	tonnes	37	116	66	61	0	1	1	142	118	8	13	5	0	20	6	0	30	3	77	707
To water																					
Process water	Mm ³	5.08	4.13	9.05	12.07	0.27	0.30	1.72	–	1.08	0.49	0.39	1.49	1.42	1.64	4.80	0.82	0.79	1.29	2.16	49.00
Cooling water	Mm ³	7.02	–	–	17.22	–	0.52	0.07	1.21	–	–	–	–	–	–	19.45	–	0.48	2.89	–	48.87
COD	tonnes	7,808	230	3,807	1,952	30	63	216	–	303	29	50	216	132	279	693	6,650	109	151	1,374	24,093
BOD	tonnes	5,276	45	1,063	258	1	3	13	–	13	3	3	8	19	7	32	4,166	3	11	327	11,249
Total suspended solids	tonnes	803	91	709	280	4	4	63	–	76	7	8	77	17	33	136	1,935	28	24	176	4,469
Total N	tonnes	42.5	8.2	105.6	36.1	7.1	0.6	22.3	–	33.9	6.3	4.6	22.1	15.8	38.4	51.3	15.0	6.6	2.2	1.9	420.3
Total P	tonnes	4.2	0.8	15.4	10.0	0.2	0.1	2.0	–	1.4	1.0	0.7	1.5	0.9	2.7	7.5	10.7	0.7	0.5	0.3	60.6
Wastes																					
Total non-hazardous wastes	tonnes	23,285	14,453	53,710	34,007	9,144	10,995	32,651	18,971	22,684	3,996	1,838	16,998	15,453	43,778	60,323	23,435	23,750	26,607	84,956	521,036
Landfill	tonnes	3,749	7,498	8,701	1,689	4,493	–	–	6,495	22,521	2,494	1,125	16,713	6,851	5,544	27,447	12,287	17,403	–	79,859	224,868
Recovery	tonnes	19,536	6,956	44,689	32,318	4,651	10,667	32,538	12,476	163	1,502	713	275	8,602	38,078	32,876	11,148	6,347	26,413	5,097	295,044
Other	tonnes	–	–	320	–	–	329	113	–	–	–	–	11	–	156	–	0	–	195	–	1,123
Hazardous wastes	tonnes	485	490	151	187	22	31	57	2,209	22	17	3	14	35	18	60	89	30	51	13	3,985

Notes
 1 CHP partly or totally outsourced.
 2 Electricity exported by CHP.
 * 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.

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
 wrtl: white top testliner
 sack p: sack paper

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

Environmental Data 2019

Paper and Board Mills, The Americas

		Bernal, Argentina	Coronel Suárez, Argentina	Bento, Brazil	Pirapetinga, Brazil	Uberaba, Brazil	Calí, Colombia	Barranquilla, Colombia	Barbosa, Colombia	Los Reyes, Mexico	Cerro Gordo, Mexico	Monterrey, Mexico	Forney, USA	Total mills
		ti, fi	ti, fi	fi, ti	ti, fi, wttl	ti, fi	p&w, sack p, cart, bkl, ti, sc fi, pulp, wtkl	ti, fi	fi, ti	fi, ti	ti, cart, fi	fi, ti	ti, fi	
Production	ktonnes	73	45	50	122	59	273	66	114	126	315	34	339	1,617
Energy														
Electricity														
Co-generated	GWh	-	-	-	-	-	214	35	46	-	-	-	36	332
Self-generated	GWh	-	-	-	-	0.0	0.1	-	0.0	-	-	-	-	0.1
Hydro power	GWh	-	-	-	-	-	-	-	-	-	-	-	-	-
Net grid supply	GWh	32	14	19	60	34	117	3	9	68	159	19	111	646
Total electricity	GWh	32	14	19	60	34	331	38	55	68	159	19	147	978
Fuel usage														
Biofuels	TJ	-	-	415	1,090	546	4,645	-	-	-	-	-	262	6,958
Fossil fuels	TJ	393	263	3	44	8	5,594	665	742	723	1,375	253	1,595	11,658
Total fuels	TJ	393	263	418	1,134	554	10,239	665	742	723	1,375	253	1,857	18,616
Water withdrawal														
Surface	Mm ³	0.1	-	0.1	1.2	-	21.7	0.6	1.0	-	-	-	-	24.5
Ground	Mm ³	0.6	0.2	-	-	0.4	0.1	-	-	0.3	1.4	0.1	-	3.2
Grid	Mm ³	-	-	0.0	0.0	-	-	0.0	-	-	-	0.1	1.1	1.2
Total water ¹	Mm ³	0.7	0.2	0.1	1.2	0.4	21.8	0.6	1.0	0.4	1.4	0.2	1.1	29.2
Discharges														
To air														
CO ₂ fossil direct	ktonnes	22	15	0	3	0	437	37	50	41	77	14	90	787
CO ₂ fossil indirect	ktonnes	12	5	2	7	4	-	-	-	31	74	9	48	193
CO ₂ biogenic	ktonnes	1	-	44	116	55	431	-	-	-	-	0	30	676
Dust	tonnes	0.0	0.0	66.5	53.4	34.6	36.8	1.7	1.1	0.0	1.9	0.0	1.9	198.0
NO _x as NO ₂	tonnes	25	11	48	131	86	845	18	62	23	40	13	61	1,363
SO _x as SO ₂	tonnes	3	0	0	8	0	1,327	0	98	0	1	0	14	1,451
To water														
Process water	Mm ³	0.33	0.14	-	0.84	0.24	21.66	0.48	0.84	0.15	0.93	0.10	0.66	26.37
Cooling water	Mm ³	0.28	-	-	-	-	-	-	-	-	-	-	-	0.28
COD	tonnes	40	36	-	369	1,103	6,890	2,344	3,816	32	722	67	713	16,132
BOD	tonnes	6	7	-	130	411	1,993	1,170	1,627	3	77	5	246	5,674
Total suspended solids	tonnes	10	17	-	44	53	1,762	249	648	3	86	16	175	3,063
Total N	tonnes	4.4	1.8	-	2.4	1.0	436.9	10.5	11.5	0.7	7.7	1.4	28.7	506.8
Total P	tonnes	0.1	0.1	-	0.8	0.4	32.6	0.1	1.2	0.2	2.4	0.2	7.1	45.3
Wastes														
Total non-hazardous wastes	tonnes	6,909	3,558	4,520	19,104	7,810	122,797	3,285	9,307	13,664	45,827	4,887	57,847	299,515
Landfill	tonnes	2,566	3,511	3,369	18,847	7,387	119,100	3,153	8,146	13,138	45,048	4,834	57,517	286,616
Recovery	tonnes	4,343	47	1,151	257	423	1,426	132	1,161	526	779	53	331	10,629
Other	tonnes	-	-	-	-	-	2,271	-	-	-	-	-	-	2,271
Hazardous wastes	tonnes	59	7	37	13	14	190	8	8	10	34	4	0	383

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.

bkl: brown kraftliner
 cart: carton board
 fi: recycled fluting
 sc fi: semi-chemical fluting
 p&w: printing and writing paper
 pulp: virgin pulp sold externally
 tl: testliner
 wtkl: white top kraftliner
 wttl: white top testliner
 sackp: sack paper

Environmental Data 2019

Operations Total, Europe

		Paper and Board Mills	Integrated Corrugated Operations	Other Packaging Operations	Other Operations	Total Operations
Production	ktonnes	5,841	4,745	438	3,098	
Energy						
Electricity						
Co-generated	GWh	1,886	–	–	–	1,886
Self-generated	GWh	0	0	–	–	0
Hydro power	GWh	4	–	–	–	4
Net grid supply	GWh	1,274	547	198	4	2,023
Total electricity	GWh	3,164	547	198	4	3,914
Fuel usage						
Biofuels	TJ	29,771	168	1	–	29,940
Fossil fuels	TJ	23,033	4,253	146	81	27,513
Total fuels	TJ	52,805	4,420	147	81	57,453
Water withdrawal						
Surface	Mm ³	89.5	0.0			89.6
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	105.3	1.7	0.1	0.0	107.1
Discharges						
To air						
CO ₂ fossil direct	ktonnes	1,371	243	9	6	1,628
CO ₂ fossil indirect	ktonnes	325	155	63	1	544
CO ₂ biogenic	ktonnes	3,349	18	0	–	3,366
Dust	tonnes	392	4	0	0	395
NO _x as NO ₂	tonnes	3,478	85	3	4	3,570
SO _x as SO ₂	tonnes	707	37	1	4	749
To water						
Process water	Mm ³	49.0	0.6	0.0	–	49.7
Cooling water	Mm ³	48.9	0.1	0.0	–	49.0
COD ²	tonnes	24,903	1,732			25,825
BOD ²	tonnes	11,249	504			11,753
Total suspended solids ²	tonnes	4,469	336			4,805
Total N ²	tonnes	420	31			452
Total P ²	tonnes	61	1			62
Wastes						
Total non-hazardous wastes	tonnes	521,036	40,290	6,862	6,758	574,946
Landfill	tonnes	224,868	4,516	568	718	230,670
Recovery	tonnes	295,044	26,354	5,838	6,025	333,261
Other	tonnes	1,123	9,421	456	15	11,015
Hazardous wastes	tonnes	3,985	3,494	463	2	7,944

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 2019

Operations Total, The Americas

		Paper and Board Mills	Other Operations	Total Operations
Production	ktonnes	1,617	3,392	
Energy				
Electricity				
Co-generated	GWh	332	–	332
Self-generated	GWh	0	0	1
Hydro power	GWh	–	–	–
Net grid supply	GWh	646	207	853
Total electricity	GWh	978	208	1,185
Fuel usage				
Biofuels	TJ	6,958	221	7,179
Fossil fuels	TJ	11,658	1,564	13,222
Total fuels	TJ	18,616	1,785	20,401
Water withdrawal				
Surface	Mm ³	24.5	0.1	24.6
Ground	Mm ³	3.2	0.3	3.5
Grid	Mm ³	1.2	0.4	1.6
Total water ¹	Mm ³	29.2	0.8	30.0
Discharges				
To air				
CO ₂ fossil direct	ktonnes	787	98	885
CO ₂ fossil indirect	ktonnes	193	71	264
CO ₂ biogenic	ktonnes	676	23	700
Dust	tonnes	198	3	201
NO _x as NO ₂	tonnes	1,363	38	1,401
SO _x as SO ₂	tonnes	1,451	39	1,490
To water				
Process water	Mm ³	26.4	0.1	26.5
Cooling water	Mm ³	0.28	0.00	0.28
COD ²	tonnes	16,132	58	16,190
BOD ²	tonnes	5,674	21	5,695
Total suspended solids ²	tonnes	3,063	30	3,093
Total N ²	tonnes	506.8	1.1	507.9
Total P ²	tonnes	45.3	0.2	45.4
Wastes				
Total non-hazardous wastes	tonnes	299,515	28,708	328,224
Landfill	tonnes	286,616	21,993	308,609
Recovery	tonnes	10,629	6,397	17,026
Other	tonnes	2,271	318	2,589
Hazardous wastes	tonnes	383	1,328	1,712

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 2019

Total Group Operations

		All Operations				
		2019	2018	2017	2016	2015
Energy						
Electricity						
Co-generated ¹	GWh	2,218	2,282	2,413	2,297	2,239
Self-generated	GWh	1	8	15	33	26
Hydro power	GWh	4	4	4	5	6
Grid supply	GWh	2,876	2,356	2,344	2,422	2,379
Total electricity	GWh	5,099	4,650	4,778	4,757	4,651
Fuel usage						
Biofuels	TJ	37,119	36,580	37,158	36,014	35,232
Fossil fuels	TJ	40,735	40,469	43,623	43,802	42,715
Total fuels	TJ	77,854	77,049	80,781	79,816	77,948
Water withdrawal						
Surface	Mm ³	114.2	99.1	101.0	102.2	100.8
Ground	Mm ³	16.7	10.9	12.7	13.7	14.2
Grid	Mm ³	3.9	3.9	4.2	4.0	3.8
Total water ²	Mm ³	137.1	115.3	119.5	121.2	120.1
Discharges						
To air						
CO ₂ fossil direct	ktonnes	2,513	2,489	2,670	2,684	2,607
CO ₂ fossil indirect	ktonnes	808	652	647	691	678
CO ₂ biogenic	ktonnes	4,066	3,944	4,038	3,936	3,764
Dust	tonnes	596	631	666	590	442
NO _x as NO ₂	tonnes	4,971	5,072	5,385	5,313	5,239
SO _x as SO ₂	tonnes	2,237	2,694	2,569	3,034	2,951
To water						
Process water	Mm ³	76.2	74.0	76.4	77.1	79.1
Cooling water	Mm ³	49.2	29.7	30.2	33.9	31.5
COD*	tonnes	42,015	41,316	40,425	41,794	37,690
BOD*	tonnes	17,449	15,022	14,988	14,326	14,072
Total suspended solids*	tonnes	7,898	8,004	8,756	8,596	9,205
Total N*	tonnes	960	1,228	1,374	983	877
Total P*	tonnes	107	224	89	126	139
Wastes						
Total non-hazardous wastes	tonnes	903,341	853,599	851,241	847,521	825,844
Landfill	tonnes	539,450	519,000	504,522	487,186	450,914
Recovery	tonnes	350,287	323,045	325,585	347,328	367,754
Other	tonnes	13,604	11,553	21,133	13,007	7,175
Hazardous wastes	tonnes	9,655	10,614	8,242	6,826	7,112

Notes
¹ CHP partly or totally outsourced.
² Total water includes rainwater and waste water from another organisation.
 * 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 d'Aquitaine			YES					YES	YES	
Virgin mills											
AT	Nettingsdorf	YES	YES		YES	YES			YES	YES	
ES	Nervi6n	YES	YES		YES	YES		YES	YES	YES	
ES	Sangüesa	YES	YES	YES		YES			YES	YES	
FR	Cellulose du Pin	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	
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	
DE	Wrexen ¹	YES	YES	YES		YES		YES	YES	YES	
	Herzberger	YES	YES	YES		YES		YES	YES	YES	
	Hoya ¹	YES	YES	YES		YES		YES	YES	YES	
	Zülpich	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	
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

	2019	2018	2017	2016	2015
Social citizenship (full time employees)					
Total number of employees ¹	46,237	44,959	46,418	45,314	44,599
of whom female (%) ²	19%	19%	19%	18%	17%
Employees leaving the company ³	4,842	6,224	1,666	1,687	1,971
of whom resignation and retirement (%)	64%	58%	74%	64%	62%
Employees joining the company ³	5,038	6,675	2,318	2,054	2,217
Age distribution (%)					
<20 years	1%	1%	1%	1%	1%
21-30 years	17%	17%	17%	17%	17%
31-40 years	24%	24%	25%	25%	25%
41-50 years	28%	28%	29%	29%	30%
51-60 years	25%	25%	24%	24%	23%
>60 years	5%	5%	4%	4%	4%
Employees turnover (%)	11.7%	15.5%	4.0%	4.1%	4.9%
Length of service, above 11 years (%)	48%	49%	49%	50%	50%
Female in management (%)	21%	19%	20%	19%	17%
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	22	24	26	20	22
Health and safety					
Lost time accidents (LTA)	325	321	327	352	364
Contractor lost time accidents (CLTA)	46	48	30	45	62
Days lost due to accidents (DLA)	11,177	10,683	11,711	11,166	9,924
Accident severity rate (ASR) (%)	13.15%	12.65%	13.88%	13.43%	13%
Frequency rate (FR)*	0.38	0.38	0.39	0.42	0.47
Total Recordable Injury Rate ⁴	0.84	1.01			
Number of Restricted Workday Cases (RWC) (SK Employees) ⁵	135				
Number of Medical Treatment Cases (MTC) (SK Employees) ⁵	253				
Total Recordable Injuries (LTA/RWC/MTC) ⁵	713				
Fatalities					
Own employees	0	0	2	1	0
(Sub) contractors	3	0	0	1	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

	2019	2018	2017	2016	2015
Sourcing data					
Number of audits					
Preferred and Multinational suppliers	37	32	55	47	53
Regional and Local suppliers	75	41	40	28	39
Satisfactory scores					
Preferred and Multinational suppliers	34	31	46	46	48
Regional and Local suppliers	60	28	33	21	29
Sustainable fibre					
Wood supplied from certified forests ¹	58%	55%	57%	59%	56%
Wood supplied from non-controversial sources ¹	42%	45%	43%	41%	44%
Paper produced as certified ¹	93%	91%	91%	91%	93%
Packaging sold as certified ¹	92.1%	88.4%	88.0%	74.0%	74.0%
External papers purchased as certified ¹	98.9%	99.5%	98.5%	²	²
Recycled fibres in global production	75.8%	74.5%	74.4%	74.0%	74.2%

Notes
 1 Either FSC, PEFC or SFI.
 2 Data not assured.