

INPUT/OUTPUT 2017

Europe

Input

Wood and fibre

Wood ⁽¹⁾	4,947	ktonnes ar
Market virgin pulp	89	ktonnes ar
Other pulp	23	ktonnes ar
Recovered Paper	4,200	ktonnes ar
Paper or Board purchased	1,665	ktonnes ar
Plastic films, other plastic item (BIB)	24	ktonnes
Starch (all types)	274	ktonnes ar
Inorganic raw materials	228	ktonnes ar
Other organic raw materials	185	ktonnes ar

Energy

Energy from fossil fuels	28,000	TJ
Energy from purchased biofuels	5,060	TJ
Electricity from grid	1,689	GWh

Water

Water intake ⁽²⁾	86	Mm ³
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Notes

(1) Wood and sawmill chips as delivered to the mill

(2) Water intake includes rainwater and waste water from another operation

ktonnes ar: kilotonnes as received

* Partly produced with SKG paper 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 to those on pages 84-86. The latter pages show the energy consumption for the production of the paper or board manufactured.

Output

Production

Papers (All grades)	4,911	ktonnes
Corrugated Packaging *	4,904	ktonnes
Board and laminated Boards *	566	ktonnes
Converted Board *	125	ktonnes
Sacks *	-	ktonnes
Other packaging	23	ktonnes

Direct emissions to air

CO ₂ fossil	1,657	ktonnes
CO ₂ biogenic	3,268	ktonnes
Dust from fuels	0.50	ktonnes
SO _x from processes	0.63	ktonnes
NO _x from processes	3.79	ktonnes

Energy output

Electricity to third party	328	GWh
Thermal energy to third party	258	TJ
Biomass sold	1,401	TJ

Wastes

Hazardous wastes	6.8	ktonnes
Non Hazardous Wastes sent to landfill	212	ktonnes
Non Hazardous wastes recovered	312	ktonnes
Other Non Hazardous wastes	17.3	ktonnes

Discharges to water

Water released	78	Mm ³
COD	23	ktonnes
BOD	9.15	ktonnes
Total Suspended Solids	3.58	ktonnes
N	0.46	ktonnes
P	0.06	ktonnes

INPUT/OUTPUT 2017

The Americas

Input

Wood and fibre

Wood ⁽¹⁾	1,047	ktonnes ar
Market virgin pulp	8.12	ktonnes ar
Other pulp	8.28	ktonnes ar
Recovered Paper	1,424	ktonnes ar
Paper or Board purchased	631	ktonnes ar
Plastic films, other plastic item (BIB)	2.33	ktonnes
Starch (all types)	61	ktonnes ar
Inorganic raw materials	73	ktonnes ar
Other organic raw materials	56	ktonnes ar

Energy

Energy from fossil fuels	16,290	TJ
Energy from purchased biofuels	2,455	TJ
Electricity from grid	860	GWh

Water

Water intake ⁽²⁾	33	Mm ³
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Notes

(1) Wood and sawmill chips as delivered to the mill

(2) Water intake includes rainwater and waste water from another operation

ktonnes ar: kilotonnes as received

* Partly produced with SKG paper 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 to those on pages 87-88. The latter pages show the energy consumption for the production of the paper or board manufactured.

Output

Production

Papers (All grades)	1,468	ktonnes
Corrugated Packaging *	1,544	ktonnes
Board and laminated Boards *	132	ktonnes
Converted Board *	65	ktonnes
Sacks *	56	ktonnes
Other packaging	2.26	ktonnes

Direct emissions to air

CO ₂ fossil	1,051	ktonnes
CO ₂ biogenic	800	ktonnes
Dust from fuels	0.17	ktonnes
SO _x from processes	1.94	ktonnes
NO _x from processes	1.60	ktonnes

Energy output

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

Wastes

Hazardous wastes	1.48	ktonnes
Non Hazardous Wastes sent to landfill	293	ktonnes
Non Hazardous wastes recovered	13.69	ktonnes
Other Non Hazardous wastes	3.83	ktonnes

Discharges to water

Water released	29	Mm ³
COD	17	ktonnes
BOD	5.84	ktonnes
Total Suspended Solids	5.17	ktonnes
N	0.91	ktonnes
P	0.03	ktonnes

Paper and board mills Europe

		Nettingsdorf, Austria	Sangüesa, Spain	Cellulose du Pin, France	Piteå, Sweden	Morava, Czech republic	Wrexen, Germany ⁽⁵⁾	Hoya, Germany	Zülpich, Germany
		kl, bkl, tl	mg paper, tl	bkl, wtkl, wttl	bkl, wtkl	tl, fl	wttl, sb, tl, fl	fl, tl, cart	fl, tl
PRODUCTION	ktonnes	453	79	486	699	66	306	430	494
ENERGY									
Electricity									
Co Generated	GWh	132	59	362 (1)	310	-	65	132	176
Self generated	GWh	-	-	-	-	-	-	-	-
Hydro power	GWh	-	-	-	-	0.8	0.1	-	-
Net Grid supply	GWh	144	83	12	278	22	32	38	16
Total electricity	GWh	275	142	375	589	23	96	169	192
Fuel usage									
Biofuels	TJ	3,667	2,220	8,895	10,261	16	48	73	300
Fossil fuels	TJ	1,046	193	587	117	335	1,468	2,461	3,012
Total fuels	TJ	4,714	2,413	9,481	10,378	350	1,516	2,534	3,312
WATER WITHDRAWAL									
Surface	Mm ³	14.0	4.9	8.9	29.4	0.4	0.5	-	1.7
Ground	Mm ³			0.7		0.0	0.7	2.2	0.4
Grid	Mm ³	0.0	0.0	0.0	0.1	0.0	-	0.2	0.0
Total water	Mm ³	14.2	5.0	9.7	29.9	0.4	1.2	2.4	2.1
DISCHARGES									
To air									
CO ₂ fossil direct	ktonnes	59	13	34	11	19	82	138	236
CO ₂ fossil indirect	ktonnes	22	21	1	3	11	15	18	8
CO ₂ biogenic	ktonnes	406	238	1,063	1,086	1	4	6	30
Dust	tonnes	34.6	5.3	30.7	354.3	0.2	0.0	0.0	0.2
NO _x as NO ₂	tonnes	224	102	705	668	11	38	96	195
SO _x as SO ₂	tonnes	29	57	126	141	2	0	2	68
To water									
Process water	Mm ³	5.13	4.57	9.53	12.32	0.27	0.34	1.84	-
Cooling water	Mm ³	7.65	-	-	17.67	-	0.53	0.05	0.98
COD	tonnes	8,234	230	3,366	1,613	25	95	268	-
BOD	tonnes	4,912	25	954	123	1	6	17	-
Total Suspended Solids	tonnes	745	106	586	315	5	4	39	-
Total N	tonnes	32.1	6.8	84.3	50.9	6.8	0.3	19.1	-
Total P	tonnes	3.0	0.8	11.1	14.4	0.5	0.2	1.7	-
Wastes									
Total Non hazardous wastes	tonnes	22,089	17,520	47,905	38,530	7,563	13,828	34,426	20,824
Landfill	tonnes	3,689	11,847	7,483	1,540	3,988	-	-	8,648
Recovery	tonnes	18,397	5,673	40,394	36,990	3,575	13,828	30,038	12,176
Other	tonnes	3	-	28	-	-	-	4,388	-
Hazardous wastes	tonnes	238	313	1,062	401	1	17	86	360

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.

	Mengibar, Spain	Alfa D'Avignon, France	Rethel, France	Salliat, France	Ania, Italy	Roermond, the Netherlands	SSK, United Kingdom	Townsend Hook, United Kingdom	Baden Karton, Germany	Herzberger, Germany	Nervión, Spain	Total mills
	fi, t, wttl	tl	tl	fi, tl	fi, tl	fi, tl	fi, tl	fi, tl	cart	sb	sack p, kl	
	228	73	63	256	214	631	213	227	143	262	153	5,476
	103	-	-	39	71	121	61	77 (1)	62	84	126	1,981
	-	0.0	-	-	-	-	-	-	-	-	2.4	2.4
	-	-	-	0.8	-	-	-	-	1.5	1.0	-	4.3
	-(2)	27	23	71	-(2)	43	-(2)	5	-(2)	7	60	861
	103	27	23	112	71	165	61	82	64	92	188	2,849
	55	-	8	48	47	186	45	20	-	-	3,279	29,167
	1,530	372	294	1,409	1,329	2,730	1,306	1,858	1,069	1,732	114	22,961
	1,584	372	302	1,457	1,377	2,916	1,350	1,877	1,069	1,732	3,393	52,128
	1.4	0.6	-	1.9	-	2.0	-	1.1	1.5	4.4	2.7	75.3
	-	-	0.4	-	1.6	-	1.0	-	-	0.0	-	7.0
	0.1	-	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.8
	1.5	0.6	0.4	1.9	1.6	2.2	1.1	1.1	1.5	4.4	2.9	84.3
	86	21	17	79	75	155	74	104	60	97	8	1,368
	-	1	1	3	-	21	0	2	1	3	15	146
	7	1	2	5	3	16	4	7	-	-	341	3,222
	0.9	0.5	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.3	66.3	493.7
	509	35	19	74	37	130	121	404	23	36	272	3,698
	79	9	3	2	3	16	1	7	0	10	36	593
	1.23	0.48	0.36	1.72	1.25	1.48	0.94	0.87	1.19	1.33	2.16	46.99
	-	-	-	-	-	-	-	-	0.12	2.89	-	29.90
	304	25	22	149	121	273	4,035	116	90	167	2,018	21,150
	13	2	1	4	12	17	1,933	5	6	12	481	8,524
	64	2	4	51	15	44	944	35	14	24	195	3,192
	41.7	4.6	3.7	31.9	9.3	30.4	81.0	17.7	2.3	2.3	4.1	429.3
	1.1	1.2	0.5	1.8	1.1	2.5	16.6	1.1	0.3	0.6	0.2	58.8
	24,611	4,838	1,556	18,043	21,694	40,291	23,947	33,115	14,189	26,937	82,313	494,218
	24,461	1,703	992	16,246	7,234	5,303	10,853	24,334	-	-	77,957	206,278
	150	3,135	564	1,798	14,460	34,842	13,078	8,781	14,189	26,937	4,357	283,361
	-	-	-	-	-	145	14	-	-	-	-	4,579
	20	21	14	7	32	30	21	39	27	18	36	2,744

bkl: Brown Kraftliner
 cart: Carton board
 fi: Recycled Fluting
 kl: Kraftliner
 mg paper: Machine glazed paper

N/A: Not available
 sack p: Sack Paper
 sb: Solid Board
 tl: Testliner
 wtkl: White Top Kraftliner

wttl: White Top Testliner

Operations total Europe

		Paper & board mills	Integrated corrugated operations	Other packaging operations	Other operations	Total operations
PRODUCTION	ktonnes	5,476	4,587	465	2,650	
ENERGY						
Electricity						
Co-Generated	GWh	1,981	-	-	-	1,981
Self-generated	GWh	2	-	-	-	2
Hydro power	GWh	4	-	-	-	4
Net Grid supply	GWh	861	533	92	4	1,489
Total electricity	GWh	2,849	533	92	4	3,478
Fuel usage						
Biofuels	TJ	29,167	139	1	-	29,306
Fossil fuels	TJ	22,961	4,126	152	81	27,320
Total fuels	TJ	52,128	4,265	153	81	56,627
WATER WITHDRAWAL						
Surface	Mm ³	75.3	0.0			75.3
Ground	Mm ³	7.0	0.3	0.0		7.3
Grid	Mm ³	0.8	1.3	0.1	0.0	2.2
Total water ⁽¹⁾	Mm ³	84.3	1.7	0.1	0.0	86.1
DISCHARGES						
To air						
CO ₂ fossil direct	ktonnes	1,368	235	9	6	1,618
CO ₂ fossil indirect	ktonnes	146	166	30	1	344
CO ₂ biogenic	ktonnes	3,222	15	0	-	3,237
Dust	tonnes	494	3	0	0	497
NO _x as NO ₂	tonnes	3,698	82	3	4	3,787
SO _x as SO ₂	tonnes	593	36	1	4	633
To water						
Process water	Mm ³	47.0	0.6	0.0	-	47.7
Cooling water	Mm ³	29.9	0.1	0.0	0.0	30.0
COD ⁽²⁾	tonnes	21,150	2,065			23,215
BOD ⁽²⁾	tonnes	8,524	626			9,149
Total Suspended Solids ⁽²⁾	tonnes	3,192	393			3,585
Total N ⁽²⁾	tonnes	429	33			462
Total P ⁽²⁾	tonnes	59	1			60
WASTES						
Total Non hazardous wastes	tonnes	494,218	31,660	7,863	7,136	540,876
Landfill	tonnes	206,278	4,351	569	466	211,663
Recovery	tonnes	283,361	15,083	6,921	6,529	311,893
Other	tonnes	4,579	12,214	374	141	17,307
Hazardous wastes	tonnes	2,744	3,575	438	2	6,759

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 2017

Paper and board mills the Americas

		Bernal, Argentina fi, tl	Coronel Suárez, Argentina fi, tl	Bento, Brazil fi	Pirapetinga, Brazil fi, t, wttl	Uberaba, Brazil fi, tl	Cali, Colombia p&w, sack p, bkl, cart, sc fi, tl, pulp, wtkl	Barranquilla, Colombia fi, tl	Barbosa, Colombia fi, tl	Los Reyes, Mexico fi, tl, cart	Cerro Gordo, Mexico fi, tl, cart	Monterrey, Mexico fi, tl	Caracas, Venezuela tl, cart	Valencia, Venezuela cart	San Felipe, Venezuela sc fi, bkl	Forney, USA fi, tl	Total mills
PRODUCTION	ktonnes	64	42	47	132	51	268	64	76	81	318	33	8	19	76	318	1,599
ENERGY																	
Electricity																	
Co Generated	GWh	-	-	-	-	-	220	29	39	-	-	-	-	24	88	33	432
Self generated	GWh	-	-	-	-	-	-	-	-	-	-	-	-	5.3	7.1	-	12.4
Hydro power	GWh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Net Grid supply	GWh	29	14	18	63	30	108	10	2	49	162	19	5	4	13	111	638
Total electricity	GWh	29	14	18	63	30	328	39	40	49	162	19	5	34	108	144	1,082
Fuel usage																	
Biofuels	TJ	-	-	301	1,070	518	4,454	-	-	-	-	-	-	-	753	541	7,636
Fossil fuels	TJ	334	228	3	34	6	5,259	625	601	553	1,404	278	123	984	2,957	1,232	14,619
Total fuels	TJ	334	228	304	1,103	524	9,712	625	601	553	1,404	278	123	984	3,710	1,773	22,254
WATER WITHDRAWAL																	
Surface	Mm ³	0.1	-	0.1	1.4	0.3	21.7	1.2	0.7	-	-	-	0.1	-	-	-	25.6
Ground	Mm ³	0.6	0.2	-	0.0	0.1	0.2	-	-	0.4	1.6	0.1	-	0.2	1.7	-	5.1
Grid	Mm ³	-	-	0.0	0.0	-	-	0.0	-	-	-	0.1	0.2	0.1	-	1.1	1.5
Total water ⁽¹⁾	Mm ³	0.7	0.2	0.1	1.5	0.4	21.9	1.2	0.7	0.5	1.6	0.2	0.3	0.3	1.7	1.1	32.5
DISCHARGES																	
To air																	
CO ₂ fossil direct	ktonnes	19	13	0	2	0	411	35	39	31	79	16	7	55	170	69	947
CO ₂ fossil indirect	ktonnes	12	6	3	10	5	20	2	0	22	74	9	1	1	3	54	222
CO ₂ biogenic	ktonnes	1	-	36	111	52	405	-	-	-	-	0	-	-	111	59	777
Dust	tonnes	0.0	0.0	43.0	40.8	29.6	25.8	3.8	1.9	0.0	4.7	0.0	0.0	0.0	10.5	4.2	164.2
NO _x as NO ₂	tonnes	18	11	35	76	47	849	40	31	21	49	8	4	60	247	59	1,554
SO _x as SO ₂	tonnes	5	0	0	6	0	1,794	0	55	0	1	1	0	0	8	11	1,880
To water																	
Process water	Mm ³	0.48	0.13	-	1.22	0.30	21.65	1.05	0.63	0.30	0.95	0.10	0.29	0.22	0.69	0.58	28.61
Cooling water	Mm ³	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16
COD	tonnes	43	30	-	1,387	1,006	7,108	2,701	2,709	41	665	33	231	69	459	674	17,156
BOD	tonnes	18	4	-	613	439	1,975	1,211	1,150	3	13	5	148	8	43	186	5,816
Total Suspended Solids	tonnes	7	10	-	133	100	2,114	1,729	437	2	146	9	333	12	65	67	5,165
Total N	tonnes	4.2	1.7	-	10.9	1.6	787.7	50.6	11.6	1.0	6.1	1.0	2.9	1.4	6.2	24.5	911.4
Total P	tonnes	0.2	0.1	-	1.4	0.8	19.0	0.8	1.0	0.5	2.5	0.2	0.3	0.1	0.5	2.3	29.8
Wastes																	
Total Non hazardous wastes	tonnes	6,242	2,606	5,002	23,330	7,887	115,930	2,345	5,624	15,861	41,157	1,445	530	8,284	5,767	40,842	282,850
Landfill	tonnes	6,202	2,561	3,990	22,443	7,730	113,035	2,306	4,461	15,216	38,896	1,352	517	8,220	3,742	40,719	271,391
Recovery	tonnes	40	45	1,012	887	157	1,341	39	1,163	645	2,261	93	13	64	54	123	7,934
Other	tonnes	-	-	-	-	-	1,554	-	-	-	-	-	-	-	1,971	-	3,525
Hazardous wastes	tonnes	71	15	19	18	6	119	16	12	19	18	5	4	12	14	0	348

bkl: Brown Kraftliner

pulp: Virgin Pulp sold externally

wtkl: White Top Kraftliner

cart: Carton board

sack p: Sack Paper

wttl: White Top Testliner

fi: Recycled Fluting

sc fi: Semi-chemical Fluting

p&w: Printing and writing grade

tl: Testliner

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.

Operations total the Americas

		PAPER & BOARD MILLS	OTHER OPERATIONS	TOTAL OPERATIONS
PRODUCTION	ktonnes	1,599	3,620	
ENERGY				
Electricity				
Co-Generated	GWh	432	-	432
Self-generated	GWh	12	1	13
Hydro power	GWh	-	-	-
Net Grid supply	GWh	638	217	855
Total electricity	GWh	1,082	218	1,300
Fuel usage				
Biofuels	TJ	7,636	215	7,851
Fossil fuels	TJ	14,619	1,672	16,290
Total fuels	TJ	22,254	1,887	24,141
WATER WITHDRAWAL				
Surface	Mm ³	25.6	0.0	25.7
Ground	Mm ³	5.1	0.3	5.4
Grid	Mm ³	1.5	0.5	2.0
Total water ⁽¹⁾	Mm ³	32.5	0.9	33.3
DISCHARGES				
To air				
CO ₂ fossil direct	ktonnes	947	104	1,051
CO ₂ fossil indirect	ktonnes	222	82	304
CO ₂ biogenic	ktonnes	777	23	800
Dust	tonnes	164	4	169
NO _x as NO ₂	tonnes	1,554	43	1,597
SO _x as SO ₂	tonnes	1,880	56	1,936
To water				
Process water	Mm ³	28.6	0.2	28.8
Cooling water	Mm ³	0.16	-	0.16
COD ⁽²⁾	tonnes	17,156	53	17,209
BOD ⁽²⁾	tonnes	5,816	22	5,838
Total Suspended Solids ⁽²⁾	tonnes	5,165	7	5,171
Total N ⁽²⁾	tonnes	911.4	1.0	912.5
Total P ⁽²⁾	tonnes	29.8	0.1	29.9
Wastes				
Total Non hazardous wastes	tonnes	282,850	27,511	310,361
Landfill	tonnes	271,391	21,454	292,845
Recovery	tonnes	7,934	5,755	13,689
Other	tonnes	3,525	301	3,826
Hazardous wastes	tonnes	348	1,132	1,479

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 2017

Total Group operations

		All operations							
		2017	2016	2015	2014	2013	2012	2011	2010
ENERGY									
Electricity									
Co-Generated ⁽¹⁾	GWh	2,413	2,297	2,239	2,308	2,350	2,405	2,400	2,250
Self-generated	GWh	15	33	26	44	33	-	-	-
Hydro power	GWh	4	5	6	6	7	5	5	8
Grid supply	GWh	2,344	2,422	2,379	2,333	2,330	2,081	2,049	2,321
Total electricity	GWh	4,778	4,757	4,651	4,692	4,720	4,491	4,456	4,580
Fuel usage									
Biofuels	TJ	37,157	36,013	35,232	34,545	34,461	31,936	33,102	32,769
Fossil fuels	TJ	43,611	43,783	42,700	43,320	43,868	44,723	46,202	46,631
Total fuels	TJ	80,768	79,796	77,931	77,865	78,329	76,659	79,304	79,400
WATER WITHDRAWAL									
Surface	Mm ³	101	102	101	101	106	104	103	109
Ground	Mm ³	13	14	14	16	15	16	15	15
Grid	Mm ³	4	4	4	3	3	3	3	3
Total water ⁽²⁾	Mm ³	119	121	120	121	125	126	122	127
DISCHARGES									
To air									
CO ₂ fossil direct	ktonnes	2,670	2,683	2,607	2,647	2,681	2,775	2,860	2,861
CO ₂ fossil indirect	ktonnes	647	691	678	659	683	584	572	661
CO ₂ biogenic	ktonnes	4,038	3,936	3,764	3,698	3,716	3,622	3,606	3,517
Dust	tonnes	666	590	442	562	561	665	699	772
NO _x as NO ₂	tonnes	5,385	5,313	5,239	4,887	4,367	4,688	4,767	5,595
SO _x as SO ₂	tonnes	2,569	3,034	2,951	2,728	2,411	3,334	3,893	3,691
To water									
Process water	Mm ³	76	77	79	80	81	79	78	82
Cooling water	Mm ³	30	34	32	33	34	34	32	33
COD ⁽³⁾	tonnes	40,425	41,794	37,690	39,116	38,188	35,665	36,278	35,024
BOD ⁽³⁾	tonnes	14,988	14,326	14,072	12,100	12,253	11,473	11,638	11,404
Total Suspended Solids ⁽³⁾	tonnes	8,756	8,596	9,205	9,840	9,526	7,752	8,504	8,033
Total N ⁽³⁾	tonnes	1,374	983	877	796	888	711	643	653
Total P ⁽³⁾	tonnes	89	126	139	114	86	91	97	109
Wastes									
Total Non hazardous wastes	tonnes	851,238	847,521	825,844	837,024	906,950	919,084	906,389	888,775
Landfill	tonnes	504,523	487,186	450,914	444,812	512,287	565,346	525,854	453,240
Recovery	tonnes	325,582	347,328	367,754	365,411	363,976	322,712	329,880	377,493
Other	tonnes	21,133	13,007	7,175	26,801	30,686	31,026	50,655	58,043
Hazardous wastes	tonnes	8,239	6,826	7,112	8,767	9,523	12,813	10,717	12,448

Notes

(1) For years 2011 and 2012 electricity co-generated and self-generated

(2) Total water includes rainwater and waste water from another organisation

(3) Sum of available data (for mills details are reported in individual tables)

For 2016, we have obtained data from the Brazil mills for Q4 only for water intake, water discharges and wastes. This data has been multiplied by four for this report.

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	EN 15593	FSSC 22000	ISO 50001	FSC	PEFC	SFI
EU										
Wood Sourcing										
ES	Central Forestal			●				●	●	
FR	Comptoir du Pin Aquitaine			●				●	●	
Virgin mills										
AT	Nettingsdorf	●	●	●	●			●	●	
ES	Nervión	●	●	●	●		●	●	●	
	Sangüesa	●	●	●	●			●	●	
FR	Cellulose du Pin	●	●	●	●			●	●	
SE	Piteå	●	●	●		●	●	●	●	
Recycled mills										
CZ	Morava	●	●	●	●		●	●	●	
ES	Mengibar	●	●	●	●			●	●	
FR	Alfa D'Avignon	●	●		●			●	●	
	Rethel	●	●		●			●	●	
	Saillat	●	●	●	●		●	●	●	
DE	Badenkarton	●	●	●	●		●	●	●	
	Hoya ⁽¹⁾	●	●	●	●		●	●	●	
	Herzberger	●	●	●	●		●	●	●	
	Wrexen ⁽¹⁾	●	●	●	●		●	●	●	
	Zülpich	●	●	●	●		●	●	●	
IT	Ania	●	●	●	●			●	●	
NL	Roermond	●	●	●	●		●	●	●	
UK	SSK	●	●	●	●		●	●	●	
	Townsend Hook	●	●	●	●		●	●	●	
The Americas										
Forestry										
CO	Colombian Forest							●		
VE	Venezuela Forest							●		
Virgin mills										
CO	Cali		●					●		
VE	San Felipe		●					●		
Recycled mills										
AR	Bernal		●					●		
	Coronel Suárez		●					●		
BR	Bento							●		
	Pirapetinga	●						●		
	Uberaba	●						●		
CO	Barbosa		●					●		
	Barranquilla		●					●		
ME	Cerro Gordo	●	●					●		
	Los Reyes	●	●					●		
	Monterrey	●	●					●		
USA	Forney		●					●	●	●
VE	Caracas		●					●		
	Valencia	●	●					●		

Note

(1) Both Hoya and Wrexen consist of two mills on one site. Certifications cover both operational units.

Social data

	2017	2016	2015	2014	2013	2012
Social citizenship (FTE)						
Total number of employees ⁽¹⁾	46,418	45,314	44,599	41,816	40,654	37,757
of whom female (%) ⁽²⁾	19%	18%	17%	17%	17%	16%
Employees leaving the company ⁽³⁾	1,666	1,687	1,971	1,675	1,598	1,596
of whom resignation and retirement (%)	74%	64%	62%	62%	59%	53%
Employees joining the company ⁽³⁾	2,318	2,054	2,217	1,826	1,743	1,890
Age distribution (%)						
<20 years	1%	1%	1%	1%	1%	1%
21-30 years	17%	17%	17%	16%	16%	16%
31-40 years	25%	25%	25%	25%	26%	26%
41-50 years	29%	29%	30%	31%	31%	32%
51-60 years	24%	24%	23%	23%	22%	22%
>60 years	4%	4%	4%	4%	4%	3%
Employees turnover (%) ⁽³⁾	4.0%	4.1%	4.9%	4.4%	4.3%	4.7%
Length of service, above 11 years (%)	49%	50%	50%	51%	52%	54%
Female in management (%)	20%	19%	17%	17%	16%	16%
Health and safety						
Lost time accidents (LTA)	327	352	364	414	405	440
Contractor lost time accidents (CLTA)	30	45	62	227	na	na
Days lost due to accidents (DLA)	11,711	11,166	9,924	11,460	10,211	10,362
Accident severity rate (ASR) (%)	13.88%	13.43%	13.00%	15.00%	14.00%	15.00%
Frequency rate (FR)	0.39	0.42	0.47	0.55	0.55	0.65
Fatalities						
Own employees	2	1	0	0	1	0
(Sub)contractors	0	1	1	1	1	2
Sourcing data						
Number of audits						
Strategic suppliers	9	20	26	22	23	26
Important suppliers	15	7	23	21	31	9
Satisfactory scores						
Strategic suppliers	6	19	21	19	22	26
Important suppliers	14	4	18	18	28	8

Notes

(1) Based on full-time equivalent number of employees and contractors

(2) Based on Smurfit Kappa employees only (excluding contractors)

(3) This data has been derived from the Hyperion Financial Management data system (HFM). Most of the countries in the Americas region have not yet registered the information in this indicator in HFM. We aim at having this information about joiners and leavers for all countries included in near future.