

SUMMARY OF ENVIRONMENTAL DATA

		LECTA			TORRASPAPEL			CONDAT			CARTIERE DEL GARDA		
		2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016
Production	Paper production, t	1,510,594	1,984,581	1,993,897	707,332	1,066,999	1,080,331	447,098	508,734	508,502	356,164	408,848	405,064
	Pulp production, t	217,146	225,958	234,440	217,146	225,958	234,440						
Consumption of raw materials	Purchased pulp, t (air-dried pulp)	525,536	536,706	523,609	147,507	168,520	164,206	214,882	199,030	204,169	163,147	169,156	155,234
	Percentage of purchased pulp certified by sustainable forest management systems (PEFC™ and FSC®)	72%	68%	70%	70%	68%	76%	79%	62%	66%	64%	76%	70%
	Wood consumption, m ³	609,745	638,239	674,397	609,745	638,239	674,397						
Energy	Primary fossil fuel energy consumption ⁽¹⁾ , MWh	629,309	698,120	699,517	448,746	494,974	504,277	88,770	107,564	101,122	91,793	95,582	94,118
	Primary biomass energy consumption, MWhPCI	927,356	998,392	1,036,188	927,356	998,392	1,036,188						
	Total energy consumption ⁽²⁾ , MWh	3,927,204	4,191,774	4,207,320	2,402,769	2,706,419	2,735,961	873,000	839,411	839,028	651,435	645,944	632,331
	Total specific energy consumption for paper and pulp production ⁽²⁾ , MWh/t	2.27	2.11	2.11	2.60	2.54	2.53	1.95	1.65	1.65	1.83	1.58	1.56
	Percentage of CHP power in total electricity consumption ⁽³⁾	140%	137%	139%	185%	165%	166%				210%	213%	221%
Air emissions	NO _x emissions ⁽⁴⁾ , t	890	972	906	837	912	848	32	39	36	20	21	21
	SO ₂ emissions, t	72	47	41	72	47	41						
	CO ₂ emissions attributable to pulp and paper production ⁽⁵⁾ , t	588,169	626,498	630,366	318,352	347,950	345,514	130,553	138,884	147,974	139,264	139,663	136,878
	Specific CO ₂ emissions attributable to pulp and paper production ⁽⁵⁾ , t CO ₂ /t	0.34	0.32	0.32	0.34	0.33	0.32	0.29	0.27	0.29	0.39	0.34	0.34
Water	Process effluents, m ³	19,506,895	20,742,107	20,724,926	12,075,210	12,832,516	12,489,582	3,275,615	3,316,296	3,431,329	4,156,070	4,593,295	4,804,015
	Specific process effluents for pulp and paper production, m ³ /t	11.29	10.45	10.39	13.06	12.03	11.56	7.33	7.90	6.75	11.67	11.23	11.86
	Suspended solids ⁽⁶⁾ , t	293.65	303.26	307.95	201.20	223.71	243.00	48.29	38.66	32.54	44.16	40.88	32.41
	Specific load of suspended solids for pulp and paper production ⁽⁶⁾ , kg/t	0.17	0.15	0.15	0.22	0.21	0.22	0.11	0.076	0.064	0.12	0.10	0.08
	Chemical Oxygen Demand (COD) ⁽⁶⁾ , t	2,223	2,081	2,414	1,661	1,564	1,869	190	161	172	372	356	373
	Specific COD load for pulp and paper production ⁽⁶⁾ , kg/t	1.29	1.05	1.21	1.80	1.47	1.73	0.43	0.32	0.34	1.05	0.87	0.92
Waste	Non-hazardous waste, t	79,927	87,658	93,123	72,232	80,898	85,889	2,708	2,576	2,825	4,987	4,184	4,409
	Hazardous waste, t	1,314.86	1,331.40	1,463.75	1,172.47	1,185.02	1,320	110.93	99.38	110.17	31.46	47.00	34.00
	Percentage of hazardous waste in total waste	1.62%	1.50%	1.55%	1.60%	1.44%	1.51%	3.94%	3.71%	3.75%	0.63%	1.11%	0.77%
	Recovered sludge, wet t	42,559	52,310	56,753	30,940	37,654	41,228	8,828	12,226	13,199	2,790	2,435	2,326

(1) Direct energy consumption at the mill: natural gas (LCV).

(2) Direct energy consumption at the mill: natural gas (LCV), biomass, steam and electricity.

(3) Electric power generated at CHP plants with over 50% participation by Lecta.

(4) Emissions from direct primary energy consumption at the mill.

(5) In the case of industrial installations involving CHP associated with paper production (independent of Lecta participation), indirect CO₂ emissions from electricity and steam generated during CHP and consumed at the mill were calculated on the basis of the "Allocation of Emissions from the Combined Heat and Power Plant" methodology published by Greenhouse Gas Protocol (www.ghgprotocol.org). In all other cases indirect CO₂ emissions from consumption of electricity from the grid were calculated on the basis of national grid emissions factors (in the case of Spain, according to data supplied by WWF: Observatorio de la electricidad; in the case of France, according to data supplied by Agence de l'Environnement et de la Maîtrise de l'Énergie).

(6) Effluents after treatment.