

▶ PRODUCTION, WASTE DISPOSAL AND EMISSIONS^{o)} (tonnes)

Site	Product	Production ^{a)}		Landfill ^{b)}		SO _x ^{c)}		NO _x ^{d)}		COD		AOX		Phosphorus		Nitrogen		CO ₂ ^{m)}		CO ₂ ⁿ⁾	
		2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001
The Baltic Countries																					
Latvia, Lithuania, Estonia (Packaging Baltic)	⑤	37 000	29 000	420	380	–	–	–	–	25	22	–	–	–	–	–	–	2	1	–	–
Belgium																					
Langerbrugge	①⑨	215 000	234 000	0	0	ᶦ)	ᶦ)	ᶦ)	ᶦ)	715	625	–	–	0	0	0	0	–	–	–	–
Canada																					
Port Hawkesbury	④①⑨	454 000	483 000	843	5 907	1 517	3 178	520	670	11 771	11 304	–	–	61.6	62.8	30.3	30.9	72 904	157 225	221 464	177 143
China																					
Suzhou	②	152 000	131 000	5 156	5 240	529	765	132 ^{ᶦ)}	116 ^{ᶦ)}	144	147	–	–	0.9	0.9	19.2	19.2	166 058	152 548	–	–
Finland																					
Anjalankoski	③①⑨	609 000	625 000	11 522	12 864	132	122	351	313	1 301	2 022	–	–	2.4	3.4	68.8	78.7	347 525	325 030	164 122	159 260
Enocell	④	608 000	560 000	5 677	7 841	253	318	1 020	1 001	6 911	7 482	81.2	86.4	2.6	1.9	57.5	46	98 856	66 211	1 648 293	1 673 554
Heinola (Fluting)	③⑨	264 000	261 000	6 194	7 393	1 300	1 330	630	600	1 942	1 972	–	–	8.1	7.4	45	63	192 855	207 200	184 000	188 700
Imatra	③②⑥⑨	1 103 000	963 000	10 102	14 085	296	830	1 607	1 557	21 999	19 388	158	146	9	16	179	233	197 248	311 766	2 617 795	2 150 023
Kemijärvi	④	194 000	178 000	4 681	10 200	236	238	329	299	8 104	7 189	16.9	15.6	10.1	11.4	101.6	113.8	35 470	43 151	647 554	510 237
Kotka	①③⑤⑨	266 000	264 000	1 646	1 865	83	296	273	274	1 937	2 684	0	0	7	13.9	52	70	265 856	255 519	314 764	267 952
Kotka (Keräyskuitu)	④	66 000	70 000	527	10 669	2	2	6	6	410	329	–	–	0.3	0.2	1.3	1.5	11 027	12 547	–	–
Lahti, Heinola, Ruovesi, Tiukka (Packaging Finland)	⑤	74 000	76 000	226	538	31	30	22	21	–	–	–	–	–	–	–	–	9 745	8 003	–	–
Oulu	②④⑨	724 000	631 000	36 136	38 764	678	648	1 041	873	9 498	6 857	86	73	15.6	9	92.7	63.9	343 698	294 031	1 276 365	1 138 586
Pankakoski	③⑨	64 000	76 000	85	561	11	11	62	65	254	410	–	–	0.2	0.4	4.5	6	2 494	2 619	68 210	72 680
Summa	①⑨	343 000	449 000	3 550	5 306	45	52	175	236	681	734	–	–	1.6	2.9	37.6	46.5	22 927	32 900	186 398	239 400
Varkaus	②①③⑤⑨	596 000	566 000	13 483	13 722	372	620	880	836	6 189	5 994	26	27	6.8	9.7	64	90	158 769	136 000	792 846	760 000
Veitsiluoto	②①⑨	759 000	754 000	3 609	4 000	583	638	1 214	1 076	11 776	11 213	50.1	49.5	10.6	8	86.8	81.7	306 241	339 619	1 398 167	1 240 730
France																					
Corbehem	①⑨	430 000	454 000	12 522	12 803	1 294	1 556	907	937	1 174	1 003	0.2	1.1	28.9	20.2	0	0	377 697	372 726	0	0
Germany																					
Baienfurt	⑤	179 000	175 000	1	16 249 ^{ᶦ)}	0	0	15	15	363	308	0.3	0.2	1.2	0.9	9.5	7.6	5 973	5 650	–	–
Kabel	①⑨	509 000	504 000	0	242	ᶦ)	ᶦ)	ᶦ)	ᶦ)	1 057	948	0.2	0.2	4.4	6.1	13.8	35.6	22 792	22 774	–	–
Maxau	①⑨	563 000	557 000	1 333	64	7	6	173	180	2 135	2 447	0.6	0.5	8	7.5	24.9	31.3	215 484	227 970	56 824	59 560
Reisholz	①⑨	213 000	204 000	7	48	ᶦ)	ᶦ)	ᶦ)	ᶦ)	90 ^{ᶦ)}	77 ^{ᶦ)}	0.1 ^{ᶦ)}	0 ^{ᶦ)}	ᶦ)	ᶦ)	ᶦ)	ᶦ)	762	579	–	–
Sachsen	④①⑨	347 000	387 000	4 461	4 364	0	3	305	319	665	738	0.7	0.9	1.8	1.3	8.7	8.2	150 304	145 801	57 641	63 548
Uetersen	②	201 000	213 000	0	0	0	0	58	41	124 ^{ᶦ)}	96 ^{ᶦ)}	0.6 ^{ᶦ)}	0.2 ^{ᶦ)}	0.1 ^{ᶦ)}	0.1 ^{ᶦ)}	4.1 ^{ᶦ)}	4.2 ^{ᶦ)}	75 499	67 291	–	–
Wolfsheck	①⑨	131 000	145 000	186	168	ᶦ)	ᶦ)	ᶦ)	ᶦ)	123	211	0.1	0.1	1	3.8	2.7	12.5	–	–	–	–
Hungary																					
Páty	⑤	5 000	1 000	8	8	–	–	1	–	–	–	–	–	–	–	–	–	509	48	–	–
Netherlands																					
Berghuizer	②	399 000	388 000	1	0	–	–	146	244	84	79	0.1	0.1	2.3	2.6	19	25.7	250 556	234 429	–	–
Poland																					
Grudziadz (Packaging Poland)	⑤	–	3 000	–	15	–	–	–	–	–	–	–	–	–	–	–	–	–	190	–	–
Portugal																					
Celbi	④	287 000	282 000	10 343	10 355	102	134	416	445	5 335	5 204	23	29	51	64	45	59	66 280	63 185	588 115	599 291
Russia																					
Balabanovo	⑤	47 000	40 000	154	157	1	1	32	30	–	–	–	–	–	–	–	–	3 209	3 089	–	–

Footnotes

- a) Reported production refers exclusively to end products. Production of sawn timber is reported in m³, other products in tonnes. Figures refer to saleable net production excluding inventory changes.
- b) Waste is reported in its dry state. Original dry content and volume-to-weight conversion are in some cases estimates.
- c) SO_x is calculated as SO₂ (sulphur dioxide) and includes all sulphurous compounds.
- d) NO_x is calculated as NO₂ (nitrogen dioxide).
- e) WQC serves Biron Mill, Wisconsin Rapids Paper Mill and Wisconsin Rapids Pulp Mill.
- f) WRC serves Stevens Point Mill and Whiting Mill.
- g) Process water is treated in the external treatment facility.
- h) Relatively high SO₂ and NO_x values are due to the relatively high share of coal in the energy mix for U.S. facilities and the design of coal-fired boilers.
- i) No energy production on site.
- j) Estimate based on fuel mixture and boiler design.
- k) Including Corenso North America figures
- (previously listed under the name of Wisconsin Rapids Paperboard).
- l) Construction waste and excavation material are the main fractions of the deposited solid waste.
- m) CO₂ from non-renewable fuels
- n) CO₂ from renewable fuels
- o) Due to improvements in data management, some figures do not correspond exactly to those reported on pages 24–29 of the Environment and Resources 2001 report.
- not analysed

Products

- ① = newsprint and magazine paper
- ② = fine paper
- ③ = board and packaging paper
- ④ = market pulp
- ⑤ = converted products (e.g. cores, impregnated laminating paper, corrugated board)
- ⑥ = laminating paper
- ⑦ = wood products
- ⑧ = red paint pigment
- ⑨ = excluding internally consumed pulp

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Site	Product	Production ^{a)}		Landfill ^{b)}		SO _x ^{c)}		NO _x ^{d)}		COD		AOX		Phosphorus		Nitrogen		CO ₂ ^{m)}		CO ₂ ⁿ⁾	
		2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001
Spain																					
Barcelona	⑤	158 000	152 000	3 715	4 492	0	0	21	18	1 921	1 414	-	-	-	-	-	-	187 027	170 772	-	-
Sweden																					
Falun (Red Paint)	⑧	1 000	1 000	0	2	5	1	-	-	-	-	-	-	-	-	-	-	730	680	-	-
Fors	⑧⑨	304 000	281 000	1 135	134	27	14	81	73	1 138	1 695	0.3	0.4	1.1	0.8	35	27	26 554	10 250	191 443	197 136
Fors, Hammarby	⑤	21 000	26 000	98	66	-	-	-	-	-	-	-	-	-	-	-	-	378	528	-	-
Grycksbo	②	232 000	207 000	3 843	1 613	111	106	37	33	125	123	0.3	0.2	0.1	0.1	10	14	54 692	51 700	-	-
Hylte	①⑨	751 000	763 000	36 372	42 168	20	20	222	216	2 444	3 058	1.1	0.8	2.7	2.5	28.2	23.7	83 158	79 419	175 306	191 113
Kvarnsveden	①⑨	634 000	653 000	4 591	3 876	160	162	265	283	1 397	1 431	1.2	1.2	2.2	2	41	37	61 606	69 164	215 706	205 928
Möndal	②⑥	-	100 000	-	3 171	-	i)	-	i)	-	110	-	0.15	-	0.2	-	6.8	-	461	-	-
Norrsundet	④	255 000	245 000	3 683	4 892	427	351	429	384	3 500	7 490	23	34	10	14	35	63	46 696	51 692	818 023	775 981
Nymölla	④⑨	415 000	447 000	643	595	501	424	591	539	13 939	12 920	2.1	2.6	18.9	11.7	187	145	32 063	35 670	718 504	800 608
Jönköping, Vikingstad, Skene (Packaging Sweden)	⑤	87 000	83 000	770	988	4	5	-	-	-	-	-	-	-	-	-	-	4 836	5 634	-	-
Skoghall	⑧⑨	595 000	528 000	2 952	9 600	294	321	476	489	11 689	10 996	17.4	12.4	12.8	12.1	128.9	91.4	189 587	193 116	731 414	646 167
Skoghall, Forshaga	⑤	86 000	25 000	0	4	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-
Skutskär	④	497 000	467 000	13 243	16 403	661	602	809	613	7 277	6 412	57.3	46.6	7.5	12.3	95.2	83.4	57 105	52 443	1 513 188	1 431 336
USA^{h)}																					
Biron	①⑨	320 000	313 000	1 616	5 686	5 050	4 856	1 997	1 924	g)	g)	g)	g)	g)	g)	g)	g)	403 879	372 257	19 796	17 558
Duluth	①④⑨	269 000	288 000	2 544	2 106	0	0	0	0	g)	g)	g)	g)	g)	g)	g)	g)	511	58	-	-
Kimberly	①②⑨	473 000	377 000	26 921	30 042	1 719	1 586	595	498	629	591	3.5	4.3	10.4	15	35.2	27.6	333 030	295 102	-	-
Niagara	①⑨	191 000	185 000	9 375	9 828	2 049	1 754	694	635	953	711	0.8	0.7	7.3	6.6	19.9	17	193 728	189 662	32 786	32 536
Stevens Point	②	138 000	131 000	484	370	1	0	52	49	g)	g)	g)	g)	g)	g)	g)	g)	83 713	80 478	-	-
Whiting	①⑨	185 000	167 000	252	226	212	182	456	392	g)	g)	g)	g)	g)	g)	g)	g)	111 473	95 989	22 090	16 803
Wisconsin Rapids Paper	②⑥	432 000	374 000	1 877	1 993	0	0	4	6	g)	g)	g)	g)	g)	g)	g)	g)	11 958	13 342	-	-
Wisconsin Rapids Pulp	④	370 000	359 000	10 858	29 378	1 682	1 746	1 694	1 718	g)	g)	g)	g)	g)	g)	g)	g)	364 520	383 026	1 274 081	1 187 843
Water Quality Center ^{e)}				2 361	4 127	0	0	-	-	11 152	13 275	37.9	43	12.4	12	90.2	73	145	256	-	-
Water Renewal Center ^{f)}				6 739	13 747	0	0	-	-	486	528	0.4	0.4	4.4	4.4	27.7	24.2	115	190	-	-
Corenso																					
Corenso, core factories ^{k)}	⑤	152 000	133 000	1 982	1 902	-	-	1	1	-	-	-	-	-	-	-	-	4 988	5 219	-	-
Pori	⑧	100 000	102 000	61	8 500	2	3	2	4	559	346	-	-	0.1	0.1	9.8	6.4	1 455	1 526	-	-
St. Seurin-sur-l'Isle	⑧	75 000	68 000	4 946	5 206	-	-	-	-	140	133	-	-	-	-	-	-	23 095	21 140	-	-
Stora Enso Timber																					
Non-integrated sawmills	⑦	4 150 000	3 712 000	18 718	6 852	138	137	325	325	385	497	-	-	5	6	-	-	9 186	11 970	320 875	310 175
Integrated sawmills	⑦	1 157 000	1 098 000																		
Total pulp, paper and board, tonnes																					
		16 579 000	16 173 000	273 936	384 737	20 399	22 911	18 736	18 025	152 153	150 716	589.4	576.55	325.4	348.2	1 711.1	1 767.8	5 677 814	5 667 874	15 934 894	14 803 674
Total timber products, m³																					
		5 307 000	4 810 000	18 718	6 852	138	137	325	325	385	497	-	-	5	6	-	-	9 186	11 970	320 875	310 175
Grand total																					
				292 654	391 589	20 537	23 048	19 061	18 350	152 538	151 213	589.4	576.55	330.4	354.2	1 711.1	1 767.8	5 687 000	5 679 844	16 255 769	15 113 849

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