

Site	Product	Production ^{a)}		Landfill ^{b)}		SO ₂ ^{c)}		NO _x ^{d)}	
		2004	2003	2004	2003	2004	2003	2004	2003
The Baltic Countries Latvia, Lithuania, Estonia (Packaging Baltic)	⑤	42 000	40 000	43	0	0	0	–	–
Belgium Langerbrugge	①⑨	464 000	274 000	31	0	6	6	81	75
Canada Port Hawkesbury	④①⑨	530 000	515 000	221	176	1 165	614	445	426
China Suzhou	②	176 000	169 000	5 628	5 490	892	767	188 ^{j)}	272 ^{j)}
Finland Anjalankoski	③①⑨	682 000	633 000	12 769	10 219	107	122	264	371
Enocell	④	611 000	619 000	8 791	6 490	344	330	1 069	1 019
Heinola (Fluting)	③⑨	276 000	256 000	6 748	6 555	1 285	1 275	605	630
Imatra	③②⑥⑨	1 166 000	1 113 000	10 987	13 324	301	282	1 853	1 774
Kemijärvi	④	233 000	223 000	4 568	4 326	222	241	407	293
Kotka	①⑥⑤⑨	304 000	270 000	3 698	3 828	15	77	296	266
Kotka (Keräyskuitu)	④	64 000	56 000	649	523	0	0	10	5
Lahti, Heinola, Ruovesi, Tiukka (Packaging Finland)	⑤	84 000	71 000	204	255	32	31	22	22
Oulu	②④⑨	932 000	799 000	14 412	24 887	494	614	966	1 022
Pankakoski	③⑨	65 000	57 000	26	45	8	12	63	60
Summa	①⑨	360 000	308 000	6 216	137	55	50	181	157
Varkaus	②①⑥⑤⑨	646 000	636 000	13 752	12 835	409	352	963	977
Veitsiluoto	②①⑨	862 000	770 000	3 447	3 740	782	776	1 251	1 190
France Corbehem	①⑨	467 000	439 000	19 457	18 890	1 210	1 276	836	930
Germany Baierfurt	③	137 000	174 000	6 030	6 187	0	0	14	16
Kabel	①⑨	560 000	514 000	0	0	0 ⁱ⁾	0 ⁱ⁾	– ⁱ⁾	– ⁱ⁾
Maxau	①⑨	556 000	582 000	21 900	2 749	0	10	241	184
Reisholz	①⑨	196 000	208 000	1	2	ⁱ⁾	ⁱ⁾	ⁱ⁾	ⁱ⁾
Sachsen	④①⑨	381 000	350 000	4 052	4 110	2	3	335	321
Uetersen	②	233 000	221 000	0	0	0	0	52	60
Wolfsheck	①⑨	136 000	137 000	140	141	ⁱ⁾	ⁱ⁾	ⁱ⁾	ⁱ⁾
Hungary Páty (Packaging Hungary)	⑤	7 000	7 000	13	10	0	0	1	1
Netherlands Berghuizer	②	406 000	405 000	4	16	0	0	133	150
Portugal Celbi	④	302 000	294 000	9 973	9 524	45	60	406	432
Russia Arzamas ^{k)}	⑤	19 000		22		20		17	
Balabanovo	③	67 000	56 000	166	165	1	1	39	38

Footnotes

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- c) Total sulphur is reported 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) Acquired in 2004.
- l) All CO₂ emission figures were calculated using the WRI/WBCSD greenhouse gas protocol. Used factors may deviate from country specific emission factors.

- m) CO₂ emissions from non-renewable fuels used in Stora Enso's operations, excluding emissions from fuels used for external and internal transportation, and emissions related to purchased heat and electricity.
- n) CO₂ emissions from renewable fuels.
- o) Due to improvements in data management, some figures do not correspond exactly to those reported on pages 46–49 of the Sustainability 2003 report.
- not analysed

CO ₂ ^{l m)}		CO ₂ ^{l n)}		COD		AOX		Phosphorus		Nitrogen	
2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003
2	2	0	0	27	25			-	-	-	-
19 650	19 033	58 585	31 964	1 495	1 058	-	-	0	7.2	0	15
87 497	99 971	296 120	217 119	11 299	14 352	-	-	26.6	72.4	3.9	15.5
225 609	165 531	0	0	133	160	-	-	0.9	0.9	18.9	19.4
349 257	374 195	131 979	150 493	5 892	2 092			7.5	3.1	217.2	93.1
108 917	111 079	1 796 698	1 686 264	8 346	8 255	105.5	98.7	1.9	2.6	42.6	55.8
182 480	201 389	205 887	210 345	1 050	1 199			2.1	2.3	11.9	16.6
173 901	185 561	2 687 415	2 539 385	23 473	28 593	185	212	14	25	189	312
38 500	36 775	790 801	714 649	7 920	9 298	26	18.5	8.9	8.9	121.2	103.8
287 121	274 647	316 768	287 880	2 444	2 439	0	0	5	6	55	53
11 029	9 563	0	0	410	297			0.3	0.4	1.4	1.2
9 613	9 718	0	0								
291 783	334 396	1 371 968	1 298 968	11 025	10 094	95	88	13.3	10.3	97.3	89
1 892	2 868	71 205	65 165	303	204			0.2	0.2	2.7	3.3
24 597	33 377	190 279	171 853	1 662	1 523	-	-	5.1	4	46.2	45.4
169 029	182 181	825 318	779 319	6 179	6 178	22.4	24.2	5	5.1	54	57
317 524	337 716	1 428 735	1 303 278	10 159	10 490	41.2	48.8	8.2	11.7	88.4	83.3
390 568	402 664	0	0	1 666	1 486	1.4	2.9	46.3	14	0	0
3 742	5 945	0	0	291	309	0.3	0.3	1	1.5	11	12.2
24 228	22 572	0	0	1 316	1 236	0.3	0.2	3.2	3.3	16.2	16.9
252 968	230 693	57 540	54 497	2 014	2 278	0.6	0.7	6.4	11.3	14	30
51	87	0	0	92 g)	89 g)	0.1 g)	0.1 g)	g)	g)	g)	g)
159 817	151 663	67 234	62 297	813	675	0.7	0.7	2.7	1.8	15.1	12.9
72 894	71 740	0	0	56 g)	110 g)	0.2 g)	0.4 g)	0 g)	0.1 g)	0.9 g)	1.8 g)
i)	i)	i)	i)	174	170	0.1	0.1	1	1	5	4
577	460	0	0								
253 983	266 120	0	0	62	69	0.1	0.2	1.3	2.2	16.8	22.4
42 947	53 124	608 373	586 463	5 532	5 713	26.4	29	52.8	53	46	47
2 634		0									
4 185	3 894	0	0								

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

Site	Product	Production ^{a)}		Landfill ^{b)}		SO ₂ ^{c)}		NO _x ^{d)}	
		2004	2003	2004	2003	2004	2003	2004	2003
Spain									
Barcelona	⑧	163 000	161 000	4 181	3 754	0	0	104	56
Sweden									
Falun (Red Paint)	⑧	1 000	1 000	1	1	4	6	–	–
Fors	③⑨	352 000	347 000	75	213	25	50	80	111
Fors, Hammarby	⑤	26 000	26 000	5	9	0	0	–	–
Grycksbo	②	244 000	232 000	47	2 590	179	173	59	52
Hylte	①⑨	792 000	775 000	41 584	47 258	3	17	249	240
Kvarnsveden	①⑨	704 000	670 000	1 071	5 210	150	192	256	266
Norrundet	④	284 000	290 000	6 972	4 021	512	530	412	422
Nymölla	④②⑨	401 000	401 000	700	563	638	577	571	569
Jönköping, Vikingstad, Skene (Packaging Sweden)	⑤	74 000	77 000	286	342	4	4	–	–
Skoghall	③⑨	633 000	643 000	3 185	3 192	294	294	481	489
Skoghall, Forshaga	⑤	123 000	90 000	5	11	0	0	–	–
Skutskär	④	537 000	512 000	11 904	11 404	540	538	675	772
USA^{h)}									
Biron	①⑨	318 000	308 000	16 668	12 539	5 295	5 007	2 049	1 952
Duluth	①④⑨	312 000	286 000	31 773	7 612	i)	i)	1	i)
Kimberly	①②⑨	517 000	494 000	23 067	20 917	1 816	1 819	709	674
Niagara	①⑨	221 000	215 000	12 771	9 411	1 369	1 782	765	751
Stevens Point	②	141 000	128 000	541	515	1	0	51	45
Whiting	①⑨	204 000	200 000	178	176	229	224	494	481
Wisconsin Rapids Paper	②③	371 000	383 000	2 410	1 528	0	0	3	5
Wisconsin Rapids Pulp	④	390 000	377 000	35 063	34 322	1 522	1 531	1 708	1 665
Water Quality Center ^{e)}				3 491	638	0	0	0	0
Water Renewal Center ^{f)}				5 632	3 595	0	0	0	0
Corenso									
Corenso, core factories	⑤	169 000	156 000	1 309	3 422	–	–	–	–
Pori	③	117 000	101 000	61	101	2	3	2	2
St. Seurin-sur-l'Isle	③	82 000	71 000	6 497	4 498				
Stora Enso Timber									
Non-integrated sawmills	⑦	5 844 000	5 182 000	22 989	22 230	7	6	968	898
Integrated sawmills	⑦	1 154 000	1 059 000						
Total pulp, paper and board, tonnes									
		18 137 000	17 133 000	363 426	312 462	19 973	19 644	19 403	19 242
Total wood products, m³									
		6 998 000	6 241 000	22 989	22 230	7	6	968	898
Grand total									
				386 415	334 692	19 980	19 650	20 372	20 140

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2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003
203 675	200 808	0	0	2 005	2 180	-	-	-	-	-	-
802	738	0	0								
29 008	41 293	209 758	221 888	1 822	1 647	0.3	0.4	0.8	1.1	27	31
296	410	0	0								
93 149	90 676	0	0	102	112	0.2	0.3	0.1	0.1	7.4	9.6
74 357	93 756	206 239	168 718	2 158	1 998	1.3	0.7	2.2	3.5	33	31
70 464	66 870	242 215	230 708	1 812	1 560	1.1	1.1	2.7	2.4	37.7	41.2
53 849	42 485	895 678	915 142	4 180	4 110	31	29	10	11	49	47
43 693	47 881	767 315	811 084	14 597	14 353	2.2	1.5	13.6	15.1	104.4	153.7
3 974	4 223	0	0								
237 417	229 269	661 222	714 069	9 523	11 758	12	14.8	6.9	9.1	103.8	126.3
43	33	0	0								
60 326	59 951	1 629 684	1 553 890	9 811	9 286	60.6	57.7	16.1	11.3	185.5	124.8
416 462	406 581	19 449	22 672	g)	g)	g)	g)	g)	g)	g)	g)
455	513	0	0	g)	g)	g)	g)	g)	g)	g)	g)
362 405	350 527	0	0	377	418	3.6	3.7	8.5	8.7	39	30.4
242 015	218 553	34 596	25 722	1 485	1 056	6.9	1	10.7	10.2	19.6	4.7
92 246	80 095	0	0	g)	g)	g)	g)	g)	g)	g)	g)
121 422	118 982	22 587	20 768	g)	g)	g)	g)	g)	g)	g)	g)
8 885	13 217	0	0	g)	g)	g)	g)	g)	g)	g)	g)
335 668	331 518	1 227 438	1 257 979	g)	g)	g)	g)	g)	g)	g)	g)
139	132	0	0	11 689	11 229	37.7	40.7	10.3	9.6	77.8	76.2
122	163	0	0	851	542	0.4	0.5	3.5	5.1	33.6	28.3
6 176	6 565	0	0								
1 199	1 622	0	0	916	929			0.3	0.3	8	8.5
25 479	23 851	0	0	240	181			-	-	-	-
10 530	13 528	387 790	365 094	257	473			3.3	5.3	1.3	1.3
5 990 718	6 017 670	16 821 085	16 102 576	165 400	169 747	662.6	676.2	299.4	335.8	1 800.5	1 823.3
10 530	13 528	387 790	365 094	257	473			3.3	5.3	1.3	1.3
6 001 248	6 031 198	17 208 876	16 467 670	165 657	170 220	662.6	676.2	302.7	341.1	1 801.8	1 824.6

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