

Environmental data, emissions to water and air



EMISSIONS TO WATER AND AIR

		Permit	2022	2021	2020	2019	2018
SULPHUR							
Rottneros Mill	tonnes/year	-	2,2	1,6	6	16	27
Vallvik Mill -excl. diffuse emissions	tonnes/year	80	10	17	12	17	16
Vallvik Mill - diffuse emissions	kg/tonne	0,18*	0,15	0,15	0,15	0,16	0,34
*) The permit for diffuse emissions was 0.5 kg/ton in year 2018.							
NOX							
Rottneros Mill	tonnes/year	-	33	36	31	28	22
Vallvik Mill	tonnes/year	420	309	341	346	362	344
SUSPENDED SUBSTANCES							
Rottneros Mill	tonnes/year	375	148	148	222	135	163
Vallvik Mill	tonnes/day	2,0	0,9	1,2	1,3	1,4	1,3
COD							
Rottneros Mill	tonnes/year	4 000	3 678	2 936	3 755	3 213	3 903
Vallviks Mill, ECF	tonnes/day	14,0	10,3	11,9	12,4	14,0	12,3
Vallviks Mill, UKP	tonnes/day	5,2	4,0	4,6	4,8	6,7	5,9
BOD7							
Rottneros Mill	tonnes/year	-	1 092	598	1 367	785	818
Vallvik Mill	tonnes/day	-	1,3	1,2	1,3	2,4	1,9
AOX							
Vallviks Mill, ECF	kg/tonnes	0,12	0,09	0,09	0,11	0,10	0,10
PHOSPHORUS							
Rottneros Mill	tonnes/year	2,2	0,4	0,7	1,6	0,7	1,4
Vallviks Mill, ECF	kg/day	14	9	12	15	14	12
Vallviks Mill, UKP	kg/day	26	24	27	24	24	24
NITROGEN							
Rottneros Mill	tonnes/year	42	23	22	25	26	29
Vallviks Mill, ECF	kg/day	110	63	83	105	113	102
Vallviks Mill, UKP	kg/day	76	43	63	62	70	74
CHLORATE							
Vallviks Mill, ECF	tonnes/day	0,25	0,38*	0,24	0,17	0,20	0,22

*) The permit was exceeded due to disturbances in 2022 and that the filtrate tank was incorrectly designed. The tank will be remedied in 2023.

PRODUCTION

		Permit	2022	2021	2020	2019	2018
Rottneros Mill	tonnes	200 000	171 580	172 900	179 900	178 400	174 000
Vallvik Mill	tonnes	255 000	225 532	222 386	232 700	227 600	219 600

Environmental data, energy and electricity consumption, as well as carbon dioxide emissions

ENERGY CONSUMPTION EXCL. ELECTRICITY

		2022	2021	2020	2019	2018
Rottneros Mill						
Biofuels	GWh	90	79	85	81	77
Fossil fuels	GWh	25	34	32	36	33
Total	GWh	115	113	117	118	109
Proportion of biofuels	%	78	70	73	69	71
Vallvik Mill						
Biofuels, incl. black liquor	GWh	1 615	1 635	1 689	1 673	1 609
Fossil fuels	GWh	14	17	21	32	27
Total	GWh	1 629	1 652	1 710	1 705	1 636
Proportion of biofuels	%	99	99	99	98	98
Group						
Biofuels, incl. black liquor	GWh	1 705	1 714	1 774	1 754	1 686
Fossil fuels	GWh	39	51	53	68	59
Total	GWh	1 744	1 765	1 827	1 823	1 745
Proportion of biofuels	%	98	97	97	96	97

ELECTRICITY CONSUMPTION

		2022	2021	2020	2019	2018
Rottneros Mill						
Electricity purchased	GWh	254	261	267	265	271
- of this fossil-free electricity	GWh	114	124	143	171	155
Vallvik Mill						
Electricity generated in factory	GWh	118	134	146	138	124
- of this fossil-free electricity	GWh	117	132	144	135	122
Electricity purchased	GWh	54	39	30	36	48
- of this fossil-free electricity	GWh	24	18	16	23	28
Total	GWh	172	173	176	174	172
- Electricity generated in factory	%	69	78	83	79	72
Group						
- Electricity generated in factory	GWh	118	134	146	138	124
- of this fossil-free electricity	GWh	117	132	144	135	122
Electricity purchased	GWh	307	300	297	301	319
- of this fossil-free electricity	GWh	138	141	159	194	183
Total	GWh	425	434	443	439	443
- Electricity generated in factory	%	28	31	33	31	28
- of this fossil-free electricity	%	60	63	68	75	69

CARBON DIOXIDE EMISSIONS

		2022	2021	2020	2019	2018
Rottneros Mill						
Fossil fuels	tonnes/year	5 113	6 927	7 299	9 989	8 941
Biofuels	tonnes/year	35 348	30 875	33 630	31 433	31 053
- proportion of biofuels	%	87	81	82	76	78
Vallvik Mill						
Fossil fuels	tonnes/year	3 826	4 679	5 604	8 723	7 353
Biofuels	tonnes/year	557 667	560 217	656 581	646 212	619 198
- share of biofuel	%	99	99	99	99	99
Group						
Fossil fuels	tonnes/year	8 939	11 606	12 903	18 712	16 294
Biofuels	tonnes/year	593 015	591 092	690 211	677 645	650 251
- share of biofuel	%	99	98	98	97	98

FOSSIL CARBON DIOXIDE EMISSIONS, GHG scope 1

		2022	2021	2020	2019	2018
Rottneros Mill	tonnes/year	5 113	6 927	7 299	9 989	8 941
Vallvik Mill	tonnes/year	3 826	4 679	5 604	8 723	7 353
Group	tonnes/year	8 939	11 606	12 903	18 712	16 294

FOSSIL CARBON DIOXIDE EMISSIONS, GHG scope 2*

		2022	2021	2020	2019	2018
Rottneros Mill	tonnes/year	94 445	93 570	90 385	66 451	89 186
Vallvik Mill	tonnes/year	19 939	14 117	10 156	9 053	15 797
Group	tonnes/year	114 383	107 687	100 540	75 505	104 983

* Based on the environmental impact (g/kWh) of the Nordic residual mix in the previous year.

