

Environmental data, emissions to water and air



EMISSIONS TO WATER AND AIR							
	Permit	2021	2021	2020	2019	2018	2017
SULFUR							
Rottneros Mill	tonne/year	-	1,6	6	16	27	22
Vallvik Mill - excl. diffuse emissions	tonne/year	80	17	12	17	16	22
Vallviks Mill - diffuse emissions	kg/ton	0,18	0,15	0,15	0,16	0,34	0,34
NOX							
Rottneros Mill	tonne/year	-	36	31	28	22	31
Vallvik Mill	tonne/year	420	341	346	362	344	368
SUSPENDED SOLIDS							
Rottneros Mill	tonne/year	375	148	222	135	163	208
Vallvik Mill	tonne/day	2,0	1,2	1,3	1,4	1,3	1,3
COD							
Rottneros Mill	tonne/year	4 000	2 936	3 755	3 213	3 903	3 842
Vallvik Mill, ECF	tonne/day	14,0	11,9	12,4	14,0	12,3	12,1
Vallvik Mill, UKP	tonne/day	5,2	4,6	4,8	6,7	5,9	5,3
BOD7							
Rottneros Mill	tonne/year	-	598	1 367	785	818	1 115
Vallvik Mill	tonne/day	-	1,2	1,3	2,4	1,9	1,5
AOX							
Vallvik Mill, ECF	kg/tonne	0,12	0,09	0,11	0,10	0,10	0,08
PHOSPHORUS							
Rottneros Mill	tonne/year	2,2	0,7	1,6	0,7	1,4	0,9
Vallvik Mill, ECF	kg/day	14	12	15	14	12	13
Vallvik Mill, UKP	kg/day	26	27	24	24	24	23
NITROGEN							
Rottneros Mill	tonne/year	42	22	25	26	29	28
Vallvik Mill, ECF	kg/day	110	83	105	113	102	89
Vallvik Mill, UKP	kg/day	76	63	62	70	74	62
CHLORATE							
Vallvik Mill, ECF	tonne/day	0,25	0,24	0,17	0,20	0,22	0,15
PRODUCTION							
	Permit	2021	2021	2020	2019	2018	2017
Rottneros Mill	tonne	200 000	172 900	179 900	178 400	174 000	172 600
Vallvik Mill	tonne	255 000	222 386	232 700	227 600	219 600	228 600

Environmental data, energy and electricity consumption and carbon dioxide emissions



ENERGY CONSUMPTION EXCLUDING ELECTRICITY						
		2021	2020	2019	2018	2017
Rottneros Mill						
Biofuels	GWh	79	85	81	77	63
Fossil fuels	GWh	34	32	36	33	52
In total	GWh	113	117	118	109	115
Proportion of biofuel	%	70	73	69	71	55
Vallvik Mill						
Biofuels incl. black liquor	GWh	1 635	1 689	1 673	1 609	1 628
Fossil fuels	GWh	17	21	32	27	13
In total	GWh	1 652	1 710	1 705	1 636	1 641
Proportion of biofuel	%	99	99	98	98	99
The Group						
Biofuels incl. black liquor	GWh	1 714	1 774	1 754	1 686	1 691
Fossil fuels	GWh	51	53	68	59	65
In total	GWh	1 765	1 827	1 823	1 745	1 756
Proportion of biofuel	%	97	97	96	97	96

ELECTRICITY CONSUMPTION						
		2021	2020	2019	2018	2017
Rottneros Mill						
Purchased electricity	GWh	261	267	265	271	268
Vallvik Mill						
Electricity generated at the mill	GWh	134	146	138	124	137
- of which bio-based	GWh	132	144	135	122	136
Purchased electricity	GWh	39	30	36	48	41
In total	GWh	173	176	174	172	178
share produced at the mill	%	78	83	79	72	77
The Group						
Electricity generated at the mill	GWh	134	146	138	124	137
- of which bio-based	GWh	132	144	135	122	136
Purchased electricity	GWh	300	297	301	319	309
In total	GWh	434	443	439	443	446
share produced at the mill	%	31	33	31	28	31



CARBON DIOXIDE EMISSIONS						
		2021	2020	2019	2018	2017
Rottneros Mill						
Fossil fuels	tonne/year	7 089	7 299	9 989	8 941	14 361
Biofuels	tonne/year	30 875	33 630	31 433	31 053	35 145
- share of biofuels	%	81	82	76	78	71
Vallvik Mill						
Fossil fuels	tonne/year	4 679	5 604	8 723	7 353	3 420
Biofuels	tonne/year	560 217	656 581	646 212	619 198	628 886
- share of biofuels	%	99	99	99	99	99
The Group						
Fossil fuels	tonne/year	11 768	12 903	18 712	16 294	17 781
Biofuels	tonne/year	591 092	690 211	677 645	650 251	664 301
- share of biofuels	%	98	98	97	98	97

FOSSIL CARBON DIOXIDE EMISSIONS, GHG scope 1						
		2021	2020	2019	2018	2017
Rottneros Mill	tonne/year	7 089	7 299	9 989	8 941	14 361
Vallvik Mill	tonne/year	4 679	5 604	8 723	7 353	3 420
The Group	tonne/year	11 768	12 903	18 712	16 294	17 781

FOSSIL CARBON DIOXIDE EMISSIONS, GHG scope 2*						
		2021	2020	2019	2018	2017
Rottneros Mill	tonne/year	93 570	90 385	66 451	89 186	93 937
Vallvik Mill	tonne/year	14 117	10 156	9 053	15 797	14 371
The Group	tonne/year	107 687	100 540	75 505	104 983	108 308

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