



# Environmental data 2019

## EMISSIONS TO WATER AND AIR

	Permit 2019	2019	2018	2017	2016	2015
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### PRODUCTION

Rottneros Mill	tonnes	178 400	174 000	172 600	156 600	154 700
Vallvik Mill	tonnes	227 600	219 600	228 600	217 500	218 700

### SULPHUR

Rottneros Mill	tonnes/year	-	16	27	22	12	12
Vallvik Mill - SO2	tonnes/year	80	17	16	22	15	24
Vallvik Mill - TRC	kg/tonnes	0,18	0,16	0,34	0,34	0,61	0,25

### NO<sub>x</sub>

Rottneros Mill	tonnes/year	-	28	22	31	43	32
Vallvik Mill	tonnes/year	420	362	344	368	324	328

### SUSPENDED SUBSTANCES

Rottneros Mill	tonnes/year	375	135	163	208	314	220
Vallvik Mill	tonnes/day	2,5	1,4	1,3	1,3	2,5	0,6

### COD

Rottneros Mill	tonnes/year	4 000	3 213	3 903	3 842	3 112	3 095
Vallvik Mill, ECF	tonnes/day	15	14	12,3	12,1	13,2	12
Vallvik Mill, UKP	tonnes/day	6,5	6,7	5,9	5,3	5,9	5,2

### BOD7

Rottneros Mill	tonnes/year	-	785	818	1115	763	618
Vallvik Mill	tonnes/day	-	2,4	1,9	1,5	2,5	2,1

### AOX

Vallvik Mill, ECF	kg/tonnes	0,25	0,10	0,10	0,08	0,10	0,12
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### PHOSPHORUS

Rottneros Mill	tonnes/year	2,2	0,7	1,4	0,9	1,4	0,7
Vallvik Mill	kg/day	25	18	17	17	19	25

### NITROGEN

Rottneros Mill	tonnes/year	42	26	29	28	31	32
Vallvik Mill	kg/day	175	99	90	80	119	143

### CHLORATE

Vallvik Mill, ECF	kg/tonnes	0,6	0,4	0,4	0,3	0,5	0,3
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## ENERGY CONSUMPTION

		2019	2018	2017	2016	2015
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### Rottneros Mill

Biofuels	GWh	81	77	63	54	54
Fossil fuels	GWh	36	33	52	58	56
<b>Total</b>	<b>GWh</b>	<b>118</b>	<b>109</b>	<b>115</b>	<b>112</b>	<b>110</b>
- proportion of biofuels	%	69	71	55	49	49

### Vallvik Mill

Biofuels incl. black liquor	GWh	1 673	1 609	1 628	1 573	1 595
Fossil fuels	GWh	32	27	13	23	19
<b>Total</b>	<b>GWh</b>	<b>1 705</b>	<b>1 636</b>	<b>1 641</b>	<b>1 596</b>	<b>1 614</b>
- proportion of biofuels	%	98	98	99	99	99

### Group

Biofuels incl. black liquor	GWh	1 754	1 686	1 691	1 628	1 649
Fossil fuels	GWh	68	59	65	80	75
<b>Total</b>	<b>GWh</b>	<b>1 823</b>	<b>1 745</b>	<b>1 756</b>	<b>1 708</b>	<b>1 724</b>
- proportion of biofuels	%	96	97	96	95	96



## ELECTRICITY CONSUMPTION

		2019	2018	2017	2016	2015
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### Rottneros Mill

Purchased electricity	GWh	265	271	268	241	241
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### Vallvik Mill

Electricity generated at mills	GWh	138	124	137	125	140
- of which green electricity	GWh	135	122	136	123	139
Purchased electricity	GWh	36	48	41	53	37
<b>Total</b>	<b>GWh</b>	<b>174</b>	<b>172</b>	<b>178</b>	<b>178</b>	<b>177</b>
- proportion generated at mills	%	79	72	77	70	79

### Group

Electricity generated at mills	GWh	138	124	137	125	140
- of which green electricity	GWh	135	122	136	123	139
Purchased electricity	GWh	301	319	309	294	278
<b>Total</b>	<b>GWh</b>	<b>439</b>	<b>443</b>	<b>446</b>	<b>419</b>	<b>418</b>
- proportion generated at mills	%	31	28	31	30	33



## CARBON EMISSIONS

		2019	2018	2017	2016	2015
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### Rottneros Mill

Fossil fuels	tonnes/year	9 989	8 941	14 361	15 748	15 432
Biofuels	tonnes/year	31 433	31 053	35 145	37 492	33 001
- proportion of biofuels	%	76	78	71	70	68

### Vallvik Mill

Fossil fuels	tonnes/year	8 723	7 353	3 420	6 276	5 291
Biofuels	tonnes/year	646 212	619 198	628 886	603 689	613 278
- proportion of biofuels	%	99	99	99	99	99

### Group

Fossil fuels	tonnes/year	18 712	16 294	17 781	22 024	20 723
Biofuels	tonnes/year	677 645	650 251	664 301	641 181	646 279
- proportion of biofuels	%	97	98	97	97	97

## FOSSIL CARBON DIOXIDE EMISSIONS, GHG scope 1

		2019	2018	2017	2016	2015
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Rottneros Mill	tonnes/year	9 989	8 941	14 361	15 748	15 432
Vallvik Mill	tonnes/year	8 723	7 353	3 420	6 276	5 291
<b>Group</b>	<b>tonnes/year</b>	<b>18 712</b>	<b>16 294</b>	<b>17 781</b>	<b>22 024</b>	<b>20 723</b>

## FOSSIL CARBON DIOXIDE EMISSIONS, GHG scope 2

		2019	2018	2017	2016	2015
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Rottneros Mill	tonnes/year	66 467	67 898	67 263	60 421	60 433
Vallvik Mill	tonnes/year	9 053	12 036	10 281	13 290	9 278
<b>Group</b>	<b>tonnes/year</b>	<b>75 520</b>	<b>79 934</b>	<b>77 544</b>	<b>73 711</b>	<b>69 711</b>

