E1-5 Energy consumption and energy mix

ENERGY CONSUMPTION AND ENERGY MIX	Unit	2024
1) Consumption of fuel from coal and coal products	MWh	0
2) Fuel consumption from petroleum and petroleum products	MWh	23 621,94
3) Fuel consumption from natural gas	MWh	8 434,15
4) Fuel consumption from other fossil sources	MWh	0
5) Consumption of purchased or obtained electricity, heat, steam and cooling from fossil sources	MWh	166 103,70
6) Total fossil energy consumption (calculated as the sum of rows 1-5)	MWh	198 159,79
Share of fossil sources in total energy consumption (%)	%	10,54%
7) Nuclear energy consumption	MWh	30 936,34
Share of nuclear energy consumption in total energy consumption (%)	%	1,64%
(8) Fuel consumption for renewable sources, including biomass (also including industrial and municipal waste of biological origin, biogas, renewable hydrogen, etc.)	MWh	1 637 901,61
9) Consumption of purchased or obtained electricity, heat, steam and cooling from renewable sources	MWh	13 719,00
10) Self-produced renewable energy consumption without the use of fuel*	MWh	145,48
(11) Total renewable and low-carbon energy consumption (calculated as the sum of rows 8-10)	**MWh**	**1 651 766,09**
Share of renewables in total energy consumption	%	87,82%
TOTAL POWER CONSUMPTION (CALCULATED AS THE SUM OF ROWS 6, 7, AND 11)	**MWh**	**1 880 862,22**

E5-5 Discharged resources

RESOURCES DISCHARGED FROM THE ORGANIZATION	Unit	2024
Waste avoided disposal	**t**	**40 604,00**
Hazardous waste, including:	**t**	**114,28**
prepared for reuse	t	0
recyclable	t	9,64
subject to other recovery processes	t	104,64
Non-hazardous waste, including:	**t**	**40 489,72**
prepared for reuse	t	2 262,09
recyclable	t	33 388,43
subject to other recovery processes	t	4 839,2
Waste sent for disposal	**t**	**20 872,82**
Hazardous waste, including:	**t**	**7,76**
Burned	t	3,56
Stored	t	0
other disposal processes	**t**	0
Non-hazardous waste, including:	**t**	**20 869,26**
Burned	t	1425
Stored	t	19 444,26
other disposal processes	**t**	0
Total radioactive waste	t	0
Total waste generated	**t**	**61 476,82**
Total hazardous waste	t	117,85
Total non-recycled waste	**t**	28 078,76
Percentage of non-recycled waste	%	45,67%
Total non-hazardous waste	t	61 358,98

E1-6 Scope 1, 2 and 3 gross greenhouse gas emissions and total greenhouse gas emissions

GREENHOUSE GAS EMISSIONS	Unit	2024
Scope 1 greenhouse gas emissions		
Gross Range 1	t CO2e	9 912,92
Percentage of Scope 1 greenhouse gas emissions from regulated emissions trading systems	%	90,66%
Scope 2 greenhouse gas emissions		
Scope 2 by location-based method	t CO2e	1 698,07
Scope 2 by market-based approach	t CO2e	110 447,79
Scope 3 greenhouse gas emissions		
Scope 3 by Location-Based Method	t CO2e	237 736,40
Scope 3 gross according to the market-based method	t CO2e	273 172,76
1 Purchased goods and services	t CO2e	56 345,79
2 Capital Goods	t CO2e	8 886,11
3 Fuel and energy activities (not included in scope 1 or 2) by location-based approach (t CO2e)	t CO2e	6 728,35
3 Fuel and energy activities (not included in scope 1 or 2) according to the market-based approach (t CO2e)	t CO2e	42 164,71
4 Upstream transport and distribution	t CO2e	22 055,02
5 Waste generated by the operation	t CO2e	402,23
6 Business Travel	t CO2e	20,00
7 Employee commute to work	t CO2e	497,77
8 Location-based Location Leased Senior Assets (t CO2e)		N/A
8 Market-based (t CO2e) leased upstream assets		N/A
9 Downstream transport		N/A
10 Processing of Sold Products	t CO2e	150 182,74
11 Use of Sold Products	t CO2e	1 423,62
12 Processing of Sold Products at End of Life	t CO2e	80,89
13 Downstream assets leased		N/A
14 Franchises		N/A
15 Investments		N/A
Total greenhouse gas emissions		
Total GHG emissions by location-based approach	**t CO2e**	**249 347,39**
Total GHG emissions by market-based approach	**t CO2e**	**393 533,47**

BIOGENIC EMISSIONS	Unit	2024
Mobile combustion	t CO2e	96,22
Stationary combustion	t CO2e	571 434,58
Steam, heat and cooling purchased	t CO2e	0,00
Category 3 Fuel and energy activities (not included in scope 1 or 2)	t CO2e	0,00
Executioner. 11 Use of Sold Products	t CO2e	193 259,69
Sum	t CO2e	764 790,49

E2-4 Air, water and soil pollution

AIR POLLUTANT EMISSIONS	Unit	Rottneros	Vallvik	Total 2024
Methane (CH4)	Kg	1 792,71	10 409,57	**12 202,28**
Carbon monoxide (CO)	Kg	24 066,50	400 234,31	**424 300,81**
Hydrofluorocarbons (HFCs)	Kg			**0,00**
Nitrous oxide (N2O)	Kg	1 792,71	9 359,39	**11 152,10**
Amoniak (NH3)	Kg	1 075,63	63 765,35	**64 840,98**
Non-methane volatile organic compounds (NMVOCs)	Kg	7 170,84	436 989,84	**444 160,68**
Nitrogen oxides (NOx/NO2)	Kg	31 948,00	309 924,64	**341 872,64**
Sulphur oxides (SOx/SO2)	Kg	5 274,34	50 790,17	**56 064,51**
Hydrochlorofluorocarbons (HCFCs)	Kg			**0,00**
Arsenic and his compounds (as As)	Kg	0,07	4,91	**4,98**
Cadmium and its compounds (as Cd)	Kg	0,18	3,08	**3,26**
Chromium and its compounds (as Cr)	Kg	0,54	7,7	**8,24**
Copper and its compounds (as Cu)	Kg	3,59	17,76	**21,35**
Mercury and its compounds (as Hg)	Kg	0,07	0,53	**0,60**
Nickel and its compounds (as Ni)	Kg	1,79	17,63	**19,42**
Lead and its compounds (as Pb)	Kg	3,59	17,76	**21,35**
Zinc and its compounds (as Zn)	Kg	35,85	72,54	**108,39**
Chlorine and inorganic compounds (as HCl)	Kg		2 046,68	**2 046,68**
Particulate matter (PM10)	Kg	91,43	45 668,33	**45 759,76**

EMISSIONS OF POLLUTANTS TO WATER	Unit	Rottneros	Vallvik	Total 2024
Nitrogen2	Kg	15 857,07	23 040,51	38 897,58
Phosphorus	Kg	272,59	5 785,30	6 057,89
Arsenic and its compounds (as As)	Kg	2,81	8,74	11,55
Cadmium and its compounds (as Cd)	Kg	0,21	6,93	7,14
Chromium and its compounds (as Cr)	Kg	13,04	19,34	32,38
Copper and its compounds (as Cu) 2	Kg	27,29	57,46	84,75
Mercury and its compounds (as Hg)	Kg	0,21	0	0,21
Nickel and its compounds (as Ni)	Kg	122,5	16,33	138,83
Lead and its compounds (as Pb)	Kg	4,05	11,75	15,80
Zinc and its compounds (as Zn)	Kg	644,75	931,71	1 576,46
Halogenated organic compounds (as AOX)	Kg		8 967,70	8 967,70
Total Organic Carbon (TOC) (as Total C or COD/3)	Kg	632 292,00	861 140,00	1 493 432,00
Chlorides (as total Cl)	Kg	240 707,61	1 024 978,51	1 265 686,12

E2-5 Substances of concern and substances of very high concern

HAZARD CLASS	Unit	Manufactured	Purchased	Used	Sold in own form	They left the Group in the form of waste
Carcinogenicity category 1	Kg		1 840 234,14	**1 840 015,00**		**219,14**
Carcinogenicity category 2	Kg		102 809,00	**102 809,00**		**0**
Skin sensitisation category 1	Kg	942 246,00	2 085,20		**942 246,00**	**160,00**
Long-term threat to the aquatic environment category 1	Kg	58 400,00		**58 400,00**		**0**
Long-term threat to the aquatic environment category 2	Kg		2 564 000,00	**2 552 000,00**		**0**
Long-term hazard to the aquatic environment category 3	Kg		8 650,00			**8 650,00**
Specific organ toxicity, repeated exposure category 1	Kg		1,50	**1,50**		**0**
Specific target organ toxicity, single exposure category 1	Kg	1 635 200,00	290 000,00	**1 925 200,00**		**0**
Sum	**Kg**	**2 635 846,00**	**7 405 939,84**	**7 241 660,33**	**942 246,00**	**190 473,44**

E3-4 Water consumption

WATER CONSUMPTION	Unit	2024
Total water consumption	m3	609 331,00
Water Intake	m3	26 487 909,00
Water Discharge	m3	25 878 579,00
Total water use in areas at risk of water stress, including areas with severe water scarcity	m3	0
Total water recycled and reused	**m3**	**5 907 060,00**

E5-4 Input Resources

RESOURCES ENTERED INTO THE ORGANIZATION	Unit	2024
Total weight of products entering the organization	t	0
Total weight of technical materials entering the organization	t	61 531,67
Total weight of biological materials entering the organization	t	1 158 735,09
including sustainably sourced materials	t	1 157 481,20
Total weight of products, technical and biological materials introduced into the organization	**t**	**1 220 266,76**
Percentage of bio-based materials used to provide services and produce products (including packaging) from sustainable sources	%	95
Total weight of products, materials, components reused or recycled in the manufacturing process of products (including packaging) or services	t	0
Percentage of products, materials, components reused or recycled in the manufacturing process of products (including packaging) or services	%	0