

# Environmental performance data

## Changes

### NOF Group

Item	Unit	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Production volume	[thousand tons]	267	243	242	245	266	267	259	229	249	226
Total energy input	[thousand GJ]	3,554	3,461	3,444	3,431	3,464	3,477	3,330	3,247	3,377	3,112
Total substance input	[thousand tons]	256	259	263	267	280	273	253	231	261	236
Water resource input	[thousand m <sup>3</sup> ]	7,949	7,900	7,987	8,240	8,131	8,061	8,232	8,319	8,420	8,498
Greenhouse gas emissions	[thousand tons of CO <sub>2</sub> ]	202	206	195	202	207	205	196	187	189	175
SOx emissions	[tons]	15	7	8	9	7	7	6	4	5	7
NOx emissions	[tons]	92	89	62	93	65	64	55	57	55	55
Soot and dust emissions	[tons]	6	3	3	5	4	5	5	8	4	5
BOD emissions	[tons]	196	127	105	79	160	69	74	104	93	67
COD emissions	[tons]	451	278	318	225	314	302	441	219	154	148
Suspended solid emissions	[tons]	38	35	41	39	32	50	37	40	36	25
Waste quantity from plants	[tons]	23,776	24,024	24,719	25,567	27,947	30,161	28,446	28,955	29,164	25,157
Internally recycled quantity	[tons]	2,242	5,100	3,929	1,177	1,190	955	1,182	1,165	953	914
Externally recycled amount	[tons]	13,438	14,309	14,704	17,055	17,645	19,253	16,426	17,808	17,687	16,547
Final disposal quantity by landfill	[tons]	961	1,157	1,260	1,333	1,168	1,046	1,302	1,588	950	1,095
Emissions of PRTR Act-controlled substances	[tons]	233	232	187	170	167	177	158	147	155	143

## Environmental performance data

### Domestic Group

Item	Unit	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Production volume	[thousand tons]	216	214	217	219	231	232	225	194	210	188
Total energy input	[thousand GJ]	3,033	3,039	3,016	3,018	2,987	3,004	2,917	2,810	2,892	2,699
Total substance input	[thousand tons]	256	259	263	267	280	273	253	231	261	236
Water resource input	[thousand m <sup>3</sup> ]	6,454	6,396	6,389	6,560	6,374	6,352	6,376	6,435	6,448	6,535
Greenhouse gas emissions	[thousand tons of CO <sub>2</sub> ]	179	184	182	181	173	172	169	158	159	144
SOx emissions	[tons]	13	6	7	9	6	6	5	3	3	4
NOx emissions	[tons]	86	87	60	90	62	60	52	53	50	51
Soot and dust emissions	[tons]	4	3	3	4	3	2	1	2	1	1
BOD emissions	[tons]	35	32	39	28	40	43	33	38	52	39
COD emissions	[tons]	71	61	78	68	73	66	60	60	68	44
Suspended solid emissions	[tons]	38	35	41	39	32	50	37	40	36	25
Waste quantity from plants	[tons]	19,395	19,966	20,508	21,351	23,466	25,976	23,662	24,176	23,796	21,270
Internally recycled quantity	[tons]	2,242	5,100	3,929	1,177	1,190	955	1,182	1,165	953	914
Externally recycled amount	[tons]	13,025	14,011	14,576	16,696	17,267	18,676	16,002	17,320	17,138	15,916
Final disposal quantity by landfill	[tons]	149	159	111	157	117	95	81	681	135	64
Emissions of PRTR Act-controlled substances	[tons]	233	232	187	170	167	177	158	147	155	143

### NOF

Item	Unit	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Production volume	[thousand tons]	194	193	198	200	211	211	205	178	191	170
Total energy input	[thousand GJ]	2,725	2,751	2,753	2,739	2,728	2,753	2,673	2,572	2,658	2,471
Total substance input	[thousand tons]	234	236	243	248	259	253	233	214	244	218
Water resource input	[thousand m <sup>3</sup> ]	5,832	5,760	5,838	5,967	5,879	5,843	5,832	5,874	5,889	6,007
Greenhouse gas emissions	[thousand tons of CO <sub>2</sub> ]	162	166	166	164	158	157	155	145	146	131
SOx emissions	[tons]	10	2	3	4	3	3	3	1	2	3
NOx emissions	[tons]	84	85	58	88	59	58	50	51	48	49
Soot and dust emissions	[tons]	1	1	2	2	2	2	1	2	1	1
BOD emissions	[tons]	31	29	35	25	37	39	30	34	50	37
COD emissions	[tons]	70	60	78	68	72	65	60	60	67	44
Suspended solid emissions	[tons]	32	29	33	31	25	35	31	33	31	22
Waste quantity from plants	[tons]	18,694	19,156	19,716	20,350	22,372	25,061	22,721	22,529	22,822	20,493
Internally recycled quantity	[tons]	2,242	5,100	3,929	1,177	1,190	955	1,182	1,165	953	914
Externally recycled amount	[tons]	12,631	13,466	14,017	16,132	16,355	17,965	15,235	16,489	16,374	15,242
Final disposal quantity by landfill	[tons]	63	55	60	66	61	60	50	40	54	37
Emissions of PRTR Act-controlled substances	[tons]	192	188	143	123	121	127	118	111	117	109