



Environmental Performance Data | Changes

GRI

301-1,2,3/302-1,3,4/
303-1,3,4/305-7/306-1,3,4,5

NOF Group

Item	Unit	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Production volume	[thousand tons]	243	242	245	266	267	259	229	249	226	209
Total energy input	[thousand GJ]	3,461	3,444	3,431	3,464	3,477	3,330	3,247	3,377	3,112	2,909
Total substance input	[thousand tons]	259	263	267	280	273	253	231	261	236	248
Water resource input	[thousand m ³]	7,900	7,987	8,240	8,131	8,061	8,232	8,319	8,420	8,498	8,358
Greenhouse gas emissions	[thousand tons of CO ₂]	206	195	202	207	205	196	187	189	175	159
SOx emissions	[tons]	7	8	9	7	7	6	4	5	7	8
NOx emissions	[tons]	89	62	93	65	64	55	57	55	55	58
Soot and dust emissions	[tons]	3	3	5	4	5	5	8	4	5	3
BOD emissions	[tons]	127	105	79	160	69	74	104	93	67	74
COD emissions	[tons]	278	318	225	314	302	441	219	154	148	171
Suspended solid emissions	[tons]	35	41	39	32	50	37	40	36	25	58
Waste quantity from plants	[tons]	24,024	24,719	25,567	27,947	30,161	28,446	28,955	29,164	25,157	22,541
Internally recycled quantity	[tons]	5,100	3,929	1,177	1,190	955	1,182	1,165	953	914	976
Externally recycled amount	[tons]	14,309	14,704	17,055	17,645	19,253	16,426	17,808	17,687	16,547	14,444
Final disposal quantity by landfill	[tons]	1,157	1,260	1,333	1,168	1,046	1,302	1,588	950	1,092	617
Emissions of PRTR Act-controlled substances	[tons]	232	187	170	167	177	158	147	155	143	167

Domestic Group

Item	Unit	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Production volume	[thousand tons]	214	217	219	231	232	225	194	210	188	179
Total energy input	[thousand GJ]	3,039	3,016	3,018	2,987	3,004	2,917	2,810	2,892	2,699	2,570
Total substance input	[thousand tons]	259	263	267	280	273	253	231	261	236	217
Water resource input	[thousand m ³]	6,396	6,389	6,560	6,374	6,352	6,376	6,435	6,448	6,535	6,484
Greenhouse gas emissions	[thousand tons of CO ₂]	184	182	181	173	172	169	158	159	144	135
SOx emissions	[tons]	6	7	9	6	6	5	3	3	4	6
NOx emissions	[tons]	87	60	90	62	60	52	53	50	51	54
Soot and dust emissions	[tons]	3	3	4	3	2	1	2	1	1	1
BOD emissions	[tons]	32	39	28	40	43	33	38	52	39	36
COD emissions	[tons]	61	78	68	73	66	60	60	68	44	52
Suspended solid emissions	[tons]	35	41	39	32	50	37	40	36	25	42
Waste quantity from plants	[tons]	19,966	20,508	21,351	23,466	25,976	23,662	24,176	23,796	21,270	19,132
Internally recycled quantity	[tons]	5,100	3,929	1,177	1,190	955	1,182	1,165	953	914	976
Externally recycled amount	[tons]	14,011	14,576	16,696	17,267	18,676	16,002	17,320	17,138	15,916	13,511
Final disposal quantity by landfill	[tons]	159	111	157	117	95	81	681	135	61	69
Emissions of PRTR Act-controlled substances	[tons]	232	187	170	167	177	158	147	155	143	167



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NOF

Item	Unit	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Production volume	[thousand tons]	193	198	200	211	211	205	178	191	170	162
Total energy input	[thousand GJ]	2,751	2,753	2,739	2,728	2,753	2,673	2,572	2,658	2,471	2,358
Total substance input	[thousand tons]	236	243	248	259	253	233	214	244	218	202
Water resource input	[thousand m ³]	5,760	5,838	5,967	5,879	5,843	5,832	5,874	5,889	6,007	5,988
Greenhouse gas emissions	[thousand tons of CO ₂]	166	166	164	158	157	155	145	146	131	123
SOx emissions	[tons]	2	3	4	3	3	3	1	2	3	5
NOx emissions	[tons]	85	58	88	59	58	50	51	48	49	53
Soot and dust emissions	[tons]	1	2	2	2	2	1	2	1	1	1
BOD emissions	[tons]	29	35	25	37	39	30	34	50	37	33
COD emissions	[tons]	60	78	68	72	65	60	60	67	44	52
Suspended solid emissions	[tons]	29	33	31	25	35	31	33	31	22	36
Waste quantity from plants	[tons]	19,156	19,716	20,350	22,372	25,061	22,721	22,529	22,822	20,493	18,463
Internally recycled quantity	[tons]	5,100	3,929	1,177	1,190	955	1,182	1,165	953	914	976
Externally recycled amount	[tons]	13,466	14,017	16,132	16,355	17,965	15,235	16,489	16,374	15,242	12,939
Final disposal quantity by landfill	[tons]	55	60	66	61	60	50	40	54	37	48
Emissions of PRTR Act-controlled substances	[tons]	188	143	123	121	127	118	111	117	109	129



Environmental Performance Data | Fiscal 2023 Performance by Organizational Unit

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NOF's plants and works

Item	Unit	Amagasaki Plant	Kawasaki Works	Oita Plant	Aichi Works	NOF, etc.
Production volume	[thousand tons]	70.6	53.2	21.8	16.1	-
Total energy input	[thousand GJ]	979	599	266	505	8.4
Total substance input	[thousand tons]	73.3	55.8	35.0	37.6	0.0
Raw materials	[thousand tons]	70.0	52.7	33.9	33.2	0.0
Containers and packing materials	[thousand tons]	3.3	3.1	1.1	4.4	0.0
Water resource input	[thousand m ³]	3,294.5	843.4	419.2	1,428.5	1.9
Greenhouse gas emissions	[thousand tons of CO ₂]	53.4	18.1	15.0	35.8	0.3
SOx emissions	[tons]	0.00	0.00	0.05	4.84	-
NOx emissions	[tons]	35.23	3.56	4.71	9.36	-
COD emissions	[tons]	18.8	2.3	4.4	26.6	-
Waste quantity from plants	[tons]	8,074.8	4,364.2	525.4	5,466.3	32.9
Internally recycled quantity	[tons]	0.0	0.0	0.0	976.0	0.0
Externally recycled amount	[tons]	6,170.3	4,275.5	72.9	2,415.5	4.7
Final disposal quantity by landfill	[tons]	27.8	1.5	0.0	18.1	0.7
Emissions of PRTR Act-controlled substances	[tons]	34.7	70.3	6.5	17.7	0.0



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Companies of the NOF Group

Item	Unit	Nippon Koki Co., Ltd.	NIKK Corporation	Showa Kinzoku Kogyo Co., Ltd.	HOKKAIDO NOF CORPORATION	Nippo Kogyo Co., Ltd.	YUKA SANGYO CO., LTD.
Production volume	[thousand tons]	2.1	1.8	0.2	2.0	0.1	1.9
Total energy input	[thousand GJ]	103.9	25.4	9.2	31.9	2.5	1.3
Total substance input	[thousand tons]	3.0	2.1	0.2	5.1	0.1	1.0
Raw materials	[thousand tons]	2.6	2.1	0.2	5.1	0.1	0.8
Containers and packing materials	[thousand tons]	0.4	0.0	0.0	0.0	0.0	0.2
Water resource input	[thousand m ³]	402.0	12.9	12.2	20.0	3.0	4.0
Greenhouse gas emissions	[thousand tons of CO ₂]	6.5	1.2	0.5	2.1	0.1	0.1
SOx emissions	[tons]	0.40	0.00	0.00	1.16	0.00	0.00
NOx emissions	[tons]	1.00	0.00	0.00	0.00	0.00	0.00
COD emissions	[tons]	0.0	0.0	0.0	0.0	0.0	0.0
Waste quantity from plants	[tons]	211.0	64.4	126.5	64.3	10.8	81.5
Internally recycled quantity	[tons]	0.0	0.0	0.0	0.0	0.0	0.0
Externally recycled amount	[tons]	204.8	64.4	85.7	31.0	8.4	81.5
Final disposal quantity by landfill	[tons]	6.1	0.0	5.9	7.7	1.2	0.0
Emissions of PRTR Act-controlled substances	[tons]	4.2	2.9	0.0	0.2	0.0	0.9

Item	Unit	Nichiyu Kogyo Co., Ltd.	NOF-METAL COATINGS ASIA PACIFIC CO., LTD.	NIKKA COATING	NICHYU LOGISTICS CO., LTD.	Other Domestic total	Overseas total
Production volume	[thousand tons]	1.8	2.9	3.3	-	1.0	30.3
Total energy input	[thousand GJ]	6.6	7.1	12.5	6.3	4.9	339.3
Total substance input	[thousand tons]	1.7	2.4	-	-	-	30.3
Raw materials	[thousand tons]	1.6	1.8	-	-	-	30.3
Containers and packing materials	[thousand tons]	0.1	0.6	-	-	-	0.0
Water resource input	[thousand m ³]	32.4	9.0	1.0	-	-	1,873.6
Greenhouse gas emissions	[thousand tons of CO ₂]	0.3	0.0	0.5	0.4	0.2	24.7
SOx emissions	[tons]	0.00	0.00	0.00	-	-	1.75
NOx emissions	[tons]	0.50	0.00	0.00	-	-	3.80
COD emissions	[tons]	0.1	0.0	0.0	-	-	118.6
Waste quantity from plants	[tons]	47.9	167.6	62.2	-	-	3,241.7
Internally recycled quantity	[tons]	0.0	0.0	0.0	-	-	0.0
Externally recycled amount	[tons]	47.9	167.6	49.0	-	-	764.5
Final disposal quantity by landfill	[tons]	0.0	0.0	0.0	-	-	547.5
Emissions of PRTR Act-controlled substances	[tons]	0.0	0.0	29.8	-	-	-