



Environmental performance data | Changes

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

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 ³]	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 ₂ e]	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

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 ³]	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 ₂ e]	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



Environmental performance data | Changes

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

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 ³]	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 ₂]	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



Environmental performance data | Fiscal 2022 performance by organizational unit

GRI

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

NOF's plants and works

Item	Unit	Amagasaki Plant	Kawasaki Works	Oita Plant	Aichi Works	NOF, etc.
Production volume	[thousand tons]	79.1	58.0	17.3	15.7	-
Total energy input	[thousand GJ]	1,070	595	272	522	11.2
Total substance input	[thousand tons]	88.1	60.8	36.2	33.1	-
Water resource input	[thousand m ³]	3,401.0	787.6	425.3	1,391.2	1.8
Greenhouse gas emissions	[thousand tons of CO ₂]	60.5	17.1	15.9	37.5	0.4
SOx emission	[tons]	0.02	0.00	0.08	2.54	-
NOx emissions	[tons]	35.00	2.98	5.89	5.18	-
COD emissions	[tons]	17.1	2.0	4.4	20.7	-
Waste quantity from plants	[tons]	9,867.5	5,136.1	534.8	4,939.7	14.6
Internally recycled quantity	[tons]	0.0	0.0	0.0	914.1	0.0
Externally recycled amount	[tons]	7,379.3	5,042.6	43.1	2,769.9	7.5
Final disposal quantity by landfill	[tons]	21.6	1.5	0.0	13.8	0.0
Emissions of PRTR Act-controlled substances	[tons]	31.6	58.1	0.7	18.4	0.1



Environmental performance data | Fiscal 2022 performance by organizational unit

GRI

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

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]	3.0	1.8	0.3	2.4	0.1	2.2
Total energy input	[thousand GJ]	112.6	29.0	9.9	33.4	2.9	1.7
Total substance input	[thousand tons]	4.1	2.1	0.3	5.3	0.0	1.2
Water resource input	[thousand m ³]	432.0	14.6	13.9	17.0	3.0	4.8
Greenhouse gas emissions	[thousand tons of CO ₂]	6.7	1.2	0.5	2.1	0.1	0.1
SOx emission	[tons]	0.40	0.00	0.00	1.38	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]	136.9	82.2	98.3	65.5	11.4	116.5
Internally recycled quantity	[tons]	0.0	0.0	0.0	0.0	0.0	0.0
Externally recycled amount	[tons]	128.6	82.2	69.5	5.8	8.3	116.5
Final disposal quantity by landfill	[tons]	8.3	0.1	2.9	11.5	0.3	0.0
Emissions of PRTR Act-controlled substances	[tons]	3.9	2.3	0.0	0.0	0.0	0.6

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]	1.9	2.9	2.9	-	-	38.1
Total energy input	[thousand GJ]	7.1	7.6	12.8	6.3	5.3	412.4
Total substance input	[thousand tons]	1.9	2.3	-	-	-	-
Water resource input	[thousand m ³]	33.1	8.8	1.0	-	-	1,962.6
Greenhouse gas emissions	[thousand tons of CO ₂]	0.3	0.0	0.4	0.4	0.2	31.7
SOx emission	[tons]	0.00	0.00	0.00	-	-	2.12
NOx emissions	[tons]	0.53	0.00	0.00	-	-	4.77
COD emissions	[tons]	0.2	0.0	0.0	-	-	104.0
Waste quantity from plants	[tons]	22.2	179.7	64.7	-	-	3,886.6
Internally recycled quantity	[tons]	0.0	0.0	0.0	-	-	0.0
Externally recycled amount	[tons]	22.1	179.1	61.4	-	-	631.3
Final disposal quantity by landfill	[tons]	0.1	0.6	3.2	-	-	1,031.1
Emissions of PRTR Act-controlled substances	[tons]	0.0	0.0	27.5	-	-	-