

NSG Group: Environment Data

■ CO2 emissions

		CY2016	CY2017	CY2018	CY2019	CY2020
CO2 (Kt)	Scope 1	2,933	2,855	3,103	2,970	2,817
	Scope 2 Location	956	896	1,050	885	728
	Scope 2 Market	-	-	891	790	530
	Scope 3	-	-	2,513	2,819	2,952

(Reference) CO2 emissions in Japan

		CY2018	CY2019	CY2020
CO2 (Kt)	Scope 1	471	516	423
	Scope 2 Location	183	179	158
	Scope 2 Market	183	159	122
	Scope 3	252	267	345

■ Breakdown of CO2 emissions (Scope 3)

	CY2018	CY2019	CY2020
Purchased Goods & Services	1,055	1,289	1,532
Processing of sold products	735	600	600
Fuel & Energy related materials	356	547	472
Investments	200	200	200
Downstream transportation & Distribution	140	145	119
Employee Commuting	10	10	2
Upstream transportation & Distribution	0	6	6
Capital goods	0	4	4
Waste	12	10	15
Business travel	6	7	1
Total (Kt)	2,513	2,819	2,952

■ CO2 reduction per unit of production volume

	FY2019	FY2020	FY2021
CO2 emission (tonne) / equivalent product (tonne)	0.73	0.74	0.79

■ Air emissions (except CO2)

	CY2018	CY2019	CY2020
NOx (Kt)	17	17	16
SOx (Kt)	6	6	6

■ Energy

	CY2018	CY2019	CY2020
Natural gas (TJ)	32,968	32,016	30,746
Heavy fuel oil (TJ)	4,927	5,764	5,124
Electricity (TJ)	7,478	7,275	6,074

■ Water

	CY2018	CY2019	CY2020
Water usage (Mm3)	17.6	17.4	15.9

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■ Operational waste to landfill

	CY2018	CY2019	CY2020
Waste glass to landfill	3.8	3.5	3.9
Non-glass waste to landfill	19.6	18.6	14.5
Total (Kt)	23.4	22.1	18.4

■ Recycling

	CY2018	CY2019	CY2020
Recycling (not glass) (Kt)	52.6	40.5	35.5