

Environmental and safety data (scope of data collection: Sakai Chemical Industry Co., Ltd.)

Energy and CO₂ *1

(FY)

	Unit	2019	2020	2021	2022	2023	
Energy	Energy consumption amount	Crude oil equivalent kL	68,700	59,900	70,800	64,600	57,000
	Of which, off-site PPA electricity purchase amount*2	kWh	—	—	—	—	939,000
	Of which, credit energy*3	Nm ³	—	1,024,332	1,024,332	1,024,332	3,375,403
	Energy intensity compared to previous fiscal year	%	104.9	103.2	98.5	103.8	100.4
CO ₂	CO ₂ emissions amount (Scope 1 + Scope 2)	Thousand t-CO ₂ eq	137	121	134	123	103
	CO ₂ emissions amount (Scope 1)	Thousand t-CO ₂ eq	91	77	91	82	64
	CO ₂ emissions amount (Scope 2)	Thousand t-CO ₂ eq	45	43	42	40	38
	CO ₂ offset amount*3	t-CO ₂	—	2,930	2,930	2,930	10,234

Waste

(FY)

	Unit	2019	2020	2021	2022	2023	
Industrial waste	Industrial waste emissions amount	Tons	51,700	43,500	52,200	43,900	37,300
	Of which, amount consigned for recycling	Tons	276	314	287	318	321
	Of which, amount consigned for thermal recycling	Tons	626	813	911	623	648
	Of which, amount consigned for other intermediate processing	Tons	843	403	299	253	284
	Of which, amount in in-house landfill	Tons	47,800	39,700	48,400	40,400	34,200
	Of which, amount consigned for external landfill	Tons	2,170	2,250	2,310	2,270	1,840
Waste plastic	Waste plastic emissions amount	Tons	577	475	461	407	404
	Of which, amount consigned for recycling (processing ratio)	Tons	0	0	2 (0.4%)	0	7 (1%)
	Of which, amount consigned for thermal recycling (processing ratio)	Tons	331 (57%)	298 (63%)	344 (75%)	308 (76%)	333 (83%)
	Of which, amount consigned for other intermediate processing (processing ratio)	Tons	193 (34%)	178 (37%)	115 (25%)	98 (24%)	64 (16%)
	Of which, amount consigned for landfills (processing ratio)	Tons	52 (9%)	0	0	0	0

Water

(FY)

	Unit	2019	2020	2021	2022	2023	
Water	Water intake amount*4	Million m ³	32.7	31.4	33.8	33.9	33.9
	Wastewater amount	Million m ³	32.8	31.5	33.8	33.9	34.9

Environmentally hazardous substances

(FY)

	Unit	2019	2020	2021	2022	2023	
Atmosphere	NOx emissions amount	Tons	71	65	62	38	42
	SOx emissions amount	Tons	66	47	53	31	28
	Fluorocarbon emissions amount	t-CO ₂	81	53	68	52	70
Water pollution	COD/BOD*5	Tons	230	210	170	240	190
	Total nitrogen emissions amount	Tons	930	880	1,100	700	1,100
	Total phosphorus emissions amount	Tons	0.08	0.07	0.05	0.05	0.06
PRTR substances	Emissions to the atmosphere	Tons	2.1	3.2	3.6	3.3	2.4
	Discharge into water bodies	Tons	280	160	290	260	210
	Discharge into soil	Tons	0	0	0	0	0
	Amount transferred	Tons	420	330	390	340	300

*1 Calculations are based on the former Act on Rationalizing Energy Use and the Act on Promotion of Global Warming Countermeasures. Calculations are for business locations that are required to report under the Act on Rationalization of Energy Use and Shift to Non-fossil Energy. Values for the Ishizu Factory are included from fiscal 2022 onwards.

*2 PPA stands for Power Purchase Agreement. It is a business model in which the PPA operator installs solar power generation equipment on the Company's premises free of charge and Sakai Chemical Industry Co., Ltd. purchases the generated electricity. In June 2022, we signed a memorandum of understanding for energy services with Tokyo Gas Co., Ltd. and introduced solar power generation equipment under a PPA model at the Otsurugi Factory of Onahama Manufacturing Site.

*3 We procure carbon offset city gas from Tokyo Gas Co., Ltd. for the Matsubara Factory (cosmetic materials) and Otsurugi Factory (electronic materials and catalysts), both of which are located at the Onahama Manufacturing Site. Please refer to page 54 for an explanation of carbon offset city gas.

*4 The water intake amount includes tap water, groundwater, industrial water, and seawater.

*5 COD (chemical oxygen demand) is converted to be equivalent to the BOD (biochemical oxygen demand) of river discharge.

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PRTR-listed substances

(FY)

	Unit	Emissions amount						Amount of movement		
		Atmosphere			Water discharges to water bodies			Amount of movement (sewage, waste)		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
Thiourea	Tons	0	0	0	250	220	170	35	31	31
Manganese and its compounds	Tons	0	0	0	35	37	34	300	230	210
Molybdenum and its compounds	Tons	0	0	0	3.9	5.0	4.1	0.73	0.74	2.3
Nickel compounds	Tons	0	0	0	0.65	0.45	0.72	14	13	10
Toluene	Tons	3.2	3.5	2.3	0	0	0	37	55	25

Safety*1

(FY)

		Unit	2019	2020	2021	2022	2023
Safety	No. of work-related accidents	Cases	1	1	1	1	3
	Frequency rate	People/1 million total working hours	0.73	0.70	0.69	0.70	2.09
	Severity rate	Days/1,000 total working hours	0.06	0.00	0.00	0.00	0.01

*1 The figures listed above are based on work-related accidents of Sakai Chemical Industry Co., Ltd. employees, and do not include work-related accidents of on-site contractors (partner companies).

Carbon Offset City Gas

Carbon Offset City Gas that contributes to the global environment is considered to achieve zero emissions on a global scale. Zero emissions are achieved by offsetting greenhouse gas emissions throughout the value chain with CO2 credits created through forest conservation, etc. We purchase carbon offset city gas that contributes to the global environment. Furthermore, we are a participant of the Carbon Offset City Gas Buyers Alliance, which is run by Tokyo Gas Co., Ltd.



Input → Output results (Sakai Chemical Industry Co., Ltd., FY2023)

