KAO Corporation - Water Security 2023



W0. Introduction

W0.1

(W0.1) Give a general description of and introduction to your organization.

Kao. The Company is a Japan-based company that operates through two business segments: Consumer Product and Chemical. The Consumer Product segment has four divisions. The Hygiene and Living Care Business offers fabric care products including detergents for apparel use, and home care products including detergents for kitchen use and hygiene products and paper diapers. The Health and Beauty Care Business offers premium skincare products such as face washes, as well as premium hair care products including shampoos, hair styling products and hair coloring products, among others. The Life Care Business provides food and beverage products such as drinks and professional use products. The Cosmetic Business provides cosmetics such as lotion, foundation and lipstick. The Chemical Business provides oil and fat products such as fatty acids; functional materials products such as surfacants and additives for plastic use, as well as specialty chemical products such as essences, among others.

The Hygiene and Living Care Business accounted for 33.3% of total turnover in fiscal 2022; The Health and Beauty Care Business, 23.8%; The Life Care Business, 3.6%; The Cosmetic Business, 15.8%; and The Chemical Business, 23.1%. The Company reported JPY 1,551.1 b in revenues and 35,411 permanent employees at December 31, 2022.

W0.2

(W0.2) State the start and end date of the year for which you are reporting data.

	Start date	End date
Reporting year	January 1 2022	December 31 2022

W0.3

(W0.3) Select the countries/areas in which you operate.
Australia Austria Belgium Canada China Czechia Denmark Finland France Germany
Hong Kong SAR, China Indonesia
Italy Japan Malaysia Mexico
Netherlands New Zealand Norway Philippines
Republic of Korea Russian Federation Singapore
South Africa Spain Sweden Switzerland Taiwan, China Thailand
United Kingdom of Great Britain and Northern Ireland United States of America
Viet Nam

(W0.4) Select the currency used for all financial information disclosed throughout your response. JPY

W0.5

(W0.5) Select the option that best describes the reporting boundary for companies, entities, or groups for which water impacts on your business are being reported.

Companies, entities or groups over which operational control is exercised

W0.6

(W0.6) Within this boundary, are there any geographies, facilities, water aspects, or other exclusions from your disclosure?

No

W0.7

(W0.7) Does your organization have an ISIN code or another unique identifier (e.g., Ticker, CUSIP, etc.)?

Indicate whether you are able to provide a unique identifier for your organization.	Provide your unique identifier
Yes, an ISIN code	JP320580000

W1. Current state

W1.1

(W1.1) Rate the importance (current and future) of water quality and water quantity to the success of your business.

	Direct use importance rating	Indirect use importance rating	Please explain
Sufficient amounts of good quality freshwater available for use	Vital	Vital	As Kao plans to increase sales to reach the 2030 goal, production will rise accordingly, leading to higher water consumption. - Primary use of freshwater in direct operation Freshwater is consumed not only as a raw material of our products, such as liquid laundry detergents, body washing products, and household products including shampoos and conditioners, but also chemicals products, and that is indispensable to produce steam and cooling water used in the production process at our plants. It is also used as drinking water and water for sanitation for our employees. - Primary use of freshwater in indirect operation Freshwater is used as a raw material of our suppliers' products

			and is indispensable to produce steam and cooling water used in
			the production process at our suppliers' plants. It is also used as
			drinking water and water for sanitation for their employees.
			- Why the chosen importance rating was selected for freshwater in direct operations
			Main products of our company include products used on human
			bodies or body washing products. That is why our factories
			require pure water with a certain quality as a material. Fresh
			water is also needed for safety of drinking water for our
			employees. As Kao has set a goal of reducing water strength in
			direct operations. Kao's water dependence in direct operations
			will weaken for the future. Kao is working to achieve the goal.
			Why the chosen importance rating was selected for freshwater in indirect operations
			Main products of our company include products used on human
			bodies, or body washing products. That is why our suppliers'
			factories require pure water with a certain quality as a material.
			Fresh water is also needed for safety of drinking water for their
			employees. Therefore, it is rated as Vital for our operation. As
			Kao has set a goal of reducing water strength in indirect
			operations, Kao's water dependence in indirect operations will
			weaken for the future. Kao is working to achieve the goal.
Sufficient	Vital	Not important at all	According to Kao's business plan until 2030, we plan to increase
amounts of			sales and the production volume at our Mexico Plant, which uses
recycled,			recycled water. Our Mexico plant has been improving its water
brackish			footprint per product unit, but again, a production increase is
and/or			planned, and water consumption during production will exceed
produced			the amount saved through the improvement effort. Consumption
water			of recycled water will therefore increase.
available for			
use			Primary use in direct operation
			At our Mexico Plant, recycled water is essential for operation
			because it is difficult to obtain enough amount of fresh water.
			We receive water recycled at another facility, purify it, and use
			It to produce steam and cooling water. Therefore, it is rated as
			Vital for our operation.
			Drimary use in indirect exerction
			None of our suppliers use non-freshwater. The products handled
			in the Hygiene & Living Care Business, Health & Beauty Care
			Business, Cosmetics Business, and Life Care Business are for
			the body require high quality water, and cannot use recycled
			water. These businesses account for about 80% of sales
			- Why the chosen importance rating was selected for their direct
			operation
			Since it is difficult to obtain fresh water, recycled water is
			essential for Mexico Plant to operate. Our Mexico plant has
			been improving its water footprint per product unit, but again, a
			production increase is planned, and water consumption during
			production will exceed the amount saved through the
			therefore increases
			Why the chosen importance rating was acleated for their indirect
			with the chosen importance rating was selected for their indirect

	operation Since we know from our surveys that none of Kao's suppliers use, and intend to use in future, non-freshwater, non-freshwater is not, and will not be, important at all for our suppliers. Kao believes that the dependence of recycled water in the future will not change.
--	--

W1.2

(W1.2) Across all your operations, what proportion of the following water aspects are regularly measured and monitored?

	% of sites/facilities	Freque ncy of	Method of	Please explain
	/operations	measur ement	measur ement	
Water withdrawa ls – total volumes	100%	Monthly	Invoice showing flow meter readings installed by a third party	We consider the water withdrawals volume as the amount appearing on invoice, etc. that shows the measurement by the flowmeter installed by a third party when water is supplied from that third party. When ground water is pumped at each site by the relevant base, we consider the water withdrawals volume to be the amount of water pumped as measured by the flowmeter. The person in charge at each site enters the water withdrawals volume into the database operated by the Kao Group once every month or two. The person in charge at the head office then checks the values entered into the database every month; if this person identifies any significant data fluctuation, he or she confirms the cause with the relevant base.
Water withdrawa Is – volumes by source	100%	Monthly	Invoice showing flow meter readings installed by a third party	We consider the water withdrawals volume by source as the amount appearing on invoice, etc. that shows the measurement by the flowmeter installed by a third party when water is supplied from that third party. When ground water is pumped at each site by the relevant base, we consider the water withdrawals volume to be the amount of water pumped as measured by the flowmeter. The person in charge at each site enters the water withdrawals volume for each source into the database operated by the Kao Group once every month or two. The person in charge at the head office then checks the values entered into the database every month; if this person identifies any significant data fluctuation, he or she confirms the cause with the relevant base.
Entrained water associate d with your metals & mining and/or	<not Applicable></not 	<not Applicable ></not 	<not Applicabl e></not 	<not applicable=""></not>

coal sector activities - total volumes [only metals and mining and coal sectors]				
Produced water associate d with your oil & gas sector activities - total volumes [only oil and gas sector]	<not Applicable></not 	<not Applicable ></not 	<not Applicabl e></not 	<not applicable=""></not>
Water withdrawa Is quality	100%	Daily	Check the color of the water against the color chart and check the odor	The person in charge at each base checks the water withdrawals quality like as color, odor and temperature every day. The person in charge at each production site checks the water color by comparing it against the color chart, and also checks the smell. If there were any problems, the person in charge report to the water supplier to solve it.
Water discharges – total volumes	100%	Daily	Volunta rily installe d flow meter	At each production site, the volume of water discharge is measured daily with a voluntarily installed flowmeter. The person in charge there inputs monthly results in the database managed by the Kao Group. At the Head Office, the person responsible checks the inputted data every month and, if data fluctuates significantly, checks with relevant sites about the cause.
Water discharges – volumes by destination	100%	Daily	Volunta rily installe d flow meter	At each production site, the volume of water by discharge destination is measured daily with a voluntarily installed flowmeter. The person in charge there inputs monthly results by destination in the database managed by the Kao Group. At the Head Office, the person responsible checks the inputted data every month and, if data fluctuates significantly, checks with the relevant sites about the cause.
Water discharges – volumes by treatment method	100%	Daily	Volunta rily installe d flow meter	At each production site, the volume of effluent by treatment method is measured daily with a voluntarily installed flowmeter. The person in charge there inputs monthly results in the database managed by the Kao Group. At the Head Office, the person responsible checks the inputted data every month and, if data fluctuates significantly, checks with the relevant sites about the cause. The person responsible at the Head Office tabulates data

				by treatment method and annually checks whether each production site has changed its effluent treatment method.
Water discharg e quality – by standard effluent paramet ers	100%	Daily	Automatic evaluatio n equipmen t, manual evaluatio n equipme nt, third- party evaluatio n equipmen t, checks with standard values set by each site	The person in charge at each base checks the water discharge quality by standard effluent parameters every day. He or she check them by using automatic evaluate equipment or by manual or third party evaluate equipment or under the standard on each base. They also input the measurement results of water quality (COD etc,) of the discharge into the database operated by Kao group every month. Headquarters personnel check the values entered in the database monthly. If this person identifies a significant data change, he or she will check the cause on a relevant basis.
Water	100%	Other,	The	At our plants in Germany, Spain, and the United Kingdom in the
discharge quality – emissions to water (nitrates, phosphate s, pesticides, and/or other priority substance s)		please specify (The frequency of measure ment is determine d according to the laws and regulation s of the country in which each plant operates.)	frequenc y of measure ment is determine d based on the laws and regulatio ns of the country in which each plant operates.	EU, monitoring is conducted for priority substances as necessary based on the EU Water Framework Directive. In addition, the concentration of substances in wastewater is regularly measured at plants in other countries as required by their respective laws and regulations to ensure that the results are below the reference values. The number of plants subject to the measurement of concentrations by law or regulation is used as the denominator of fraction, and the ratio of compliance with the law is indicated.
Water discharge quality – temperatu re	Not relevant	<not Applicable ></not 	<not Applicabl e></not 	At Kao's plants, high-temperature water is generated at cogeneration power facilities, incinerators, chemical reaction facilities, air conditioning. All of these hot water is cooled in a closed-loop cooling tower, and heat is released into the atmosphere. Kao also recognizes the following. The effluent at each site is discharged externally after it is returned to room temperature at the wastewater treatment facilities in the plant. Therefore, it is rated as Not relevant, as there is no impact on the ecosystem due to the temperature of the discharged water. The Kao Group is expanding its business as a corporate group, and it is expected that the scale of wastewater treatment equipment will be expanded accordingly. However, there is no change in our basic direction of returning wastewater to room temperature, thus it is not considered to have

				any impact on the ecosystem and continues to be no relevant in
				the future.
Water	76-99	Monthly	Differenc	Since Kao considers the amount of water consumption to be the
consumpti			е	difference between the amount of water withdrawals and the
on – total			between	amount of water discharge, monitoring the amount of water
volume			intake	withdrawals and the amount of water discharge achieves
			and	monitoring of the amount of water consumption. The person in
			discharg	charge at each base checks the amount of water withdrawals and
			е	the amount of water discharge every month or every other month
				and enters the relevant data for each intake source into a
				database managed by the Group. The person in charge at the
				head office checks the values entered into the database every
				month; if this person identifies any significant data fluctuation, he
				or she confirms the cause with the relevant base. However, at
				some business sites, the rainwater that has fallen inside the sites
				is drained to the outside, so the monitoring ratio is not 100%.
Water	100%	Daily	Estimate	At facilities where water is recycled, the facility operation status is
recycled			d from	monitored to measure the volume of water recycled every day by
/reused			the	using a flowmeter or by estimating the pump capabilities and
			capacity	operation time. Note that in order to check which production sites
			and	actually do recycle water, the person responsible at the Head
			operating	Office conducts an annual survey with all group companies to
			time of	examine whether production sites that did not recycle water still do
			the flow	not recycle or reuse it.
			meter	
			and	
			pump	

	% of	Frequency of	Method of	Please explain
	Sites/facilities	measurement	measurement	
	operations			
The	100%	Monthly	On-site audit,	In accordance with the basic policy on
provision			comparison of	environmental safety, we provide a fully-equipped
of fully-			responses with	water, sanitation and hygiene (WASH) service to all
functionin			Sedex survey,	workers at all our bases. At each base, a committee
g, safely			and employee	run by each base (for example, the Safety and
managed			questionnaire	Health Committee) checks them every month.
WASH				Providing fully-functioning, safely managed WASH
services				services to all workers. Every year, the Head Office
to all				checks for water or hygiene problems in services by
workers				conducting on-site audits, comparing responses
				against the Sedex survey, and conducting
				employee surveys.

W1.2b

(W1.2b) What are the total volumes of water withdrawn, discharged, and consumed across all your operations, how do they compare to the previous reporting year, and how are they forecasted to change?

	Volume (megalite rs/year)	Comparis on with previous reporting year	Primary reason for comparis on with previous reporting year	Five- year forecast	Primary reason for forecast	Please explain
Total withdr awals	16516	About the same	Increase/d ecrease in business activity	Higher	Increase/de crease in business activity	If fluctuation in the water withdrawals volume in a year is within 5% when compared with the previous year, Kao regards the water withdrawals volume in both years as about the same in its management of water withdrawals. We set 5%, which is below 8%, as the criterion because we need to continue growing our operation by about 8% per year to achieve the sales target for 2030. Although total revenues of Kao increased by 9.3% from 2021 to 2022, total water withdrawals decreased by 4.5% from 2021 to 2022, which is less than 5% decrease compared to the previous year. Therefore, we rated as About the same. First, total revenue in 2022 increased compared to the previous year, but actual total production volume was 2.7% lower than last year. In 2022, the rate of decline in water withdrawal exceeded the rate of decline in total production volume due to the following reasons. Water withdrawal at Wakayama Plant, which accounts for about 35% of the Group's tota water consumption, decreased by more than 10% from the previous year due to contractual reasons with the municipality. Apart from this, Kao promotes group-wide water conservation activities. For example, although production volume of Fuji Plant in 2022 was about the same as the previous year, the volume of water withdrawal was reduced by more than 8% from the previous year due to faster operating speeds of the paper-making facilities. However, the Kao Group is in the process of growing business as a corporate group and the total volumes of water withdrawals is expected to increase accordingly. Therefore, "Higher" is selected as the forecast for the next five years,
Total disch arges	10536	Lower	Increase/d ecrease in business activity	Higher	Increase/de crease in business activity	If fluctuation in the water discharge volume in a year is within 5% when compared with the previous year, Kao regards the water discharge volume in both years as about the same in its management of water discharges. In order to achieve the sales target for 2030, it is necessary to continue business growth at an annual rate of about 8%, so we set the standard at 5%, which is below 8%. Kao's total sales increased by 9.3% from 2021 to 2022, while total discharge decreased by 7.8% from 2021 to 2022. We

						chose "Lower" because it is a decrease of little over 5% compared to the previous year. First, total revenue in 2022 was up over the previous year, but actual total production was 2.7% lower than the previous year. One of the reasons why the rate of decrease in total wastewater was higher than the rate of decrease in total amount of water used was that during the production troubles in FCM (Malaysia), cooling water continued to flow and the amount of wastewater increased even though production was stopped in 2021, but this incident was sorted out. In the future, it is expected that the total amount of water withdrawal and total wastewater discharge will increase in the process of expanding the business as a corporate group. Therefore, "Higher" is selected as the forecast for the next five years.
Total consu	5980	About the	Increase/d ecrease	Higher	Increase/de crease in	If fluctuation in the water consumption volume in a year is within 5% when compared with the
mpuon		same	in efficiency		activity	consumption volume in both years as about the
						same in its management of water consumption. The total water consumption is 16,516, total
						wastewater discharge: $10,536 \rightarrow \text{total water}$ consumption: $16,516-10,536 = 5,980$
						((thousand tons)). Sales have increased by 9.3%
						since 2021, but total water consumption has increased by 2.1% from 2021. We chose "About
						the same" because the increase from the
						previous year is less than 5%. In the case of
						sales situation of products that contain a lot of
						water. We are in the stage of expanding our
1						business as a corporate group, and it is
						business as a corporate group, and it is expected that the total amount of water used will

(W1.2d) Indicate whether water is withdrawn from areas with water stress, provide the proportion, how it compares with the previous reporting year, and how it is forecasted to change.

	With draw als are from area s with water stres s	% withd rawn from areas with water stres s	Comp arison with previo us reporti ng year	Primary reason for comparison with previous reporting year	Five- year forecast	Primary reason for forecast	Identificat ion tool	Please explain
Row 1	Yes	11-25	Abou t the same	Increase/decr ease in business activity	Higher	Increase/ decrease in business activity	WRI Aqueduct	-Why or why not the percentage of water withdrawn from stressed areas has changed from the previous reporting year? Kao manages the volume of water withdrawals by considering that it is about the same as the previous year if it is in the range of 5% difference. We chose 5% as the reference since it is lower than 8%, which is the target percentage for annual growth we need in order to achieve the 2030 sales target. In 2022, the total water withdrawals rate in the areas with high water stress to the total water withdrawals was 17.6%, a increase of 0.5% from 17.1% compared to the previous year. Since it is less than 5%, we rated it as "About the same". Since we are in the process of expanding our business as a corporate group, and water withdrawals are expected to increase in the future, "Higher" is selected as the forecast for the next five yearsHow the selected tool was applied to evaluate whether the water has been withdrawn from stressed areas? Kao is a consumer product manufacturer and its plants are located near sites of consumption. Most sites of consumption are large cities around the world. In these cities the population is predicted to further increase, and we recognize that this will lead to water supply risk. For this reason, Kao uses the WRI Aqueduct, whose indicators include future water risk, as an assessment tool. We check Baseline water stress and identify areas rated "High" and "Extremely high" as areas with high water stress.

(W1.2h) Provide total water withdrawal data by source.

	Relev ance	Volume (megalite rs/year)	Comp arison with previo us reporti ng year	Primary reason for comparis on with previous reporting year	Please explain
Fresh surface water, including rainwate r, water from wetlands , rivers, and lakes	Rele vant	2	Lower	Other, please specify (It is estimated that this was due to less precipitati on than the previous year.)	In 2020, we built a new office building on the premises of the Sumida Plant. We started using the rainwater that fell on the roof of this building in the toilet, and in 2021, we recorded a large amount of usage, so we reported it for the first time. At the Sumida Plant, an underground storage tank for rainwater has been installed as an emergency response such as a fire in the site, and some rainwater was used for watering the green space in the site. Therefore, it was not included in the amount of water intake and drainage.
Brackish surface water/Sea water	Not rele vant	<not Applicabl e></not 	<not Applic able></not 	<not Applicabl e></not 	Main products of our company include products used on human bodies, or body washing products. That is why our factories require pure water with a certain quality as a material. Therefore we don't use non-fresh water including brackish surface water/seawater. We think that the possibility of using it in the future is low so far.
Ground water – renewa ble	Rele vant	5417	Abou t the sam e	Increase/ decrease in business activity	Kao uses groundwater if there is abundant supply and if the company concludes that water withdrawals will not affect residents in neighboring areas or those who are downstream of underwater channels. Kao uses groundwater at seven plants, and its volume accounts for approximately 30% of the total volume of water withdrawals. Kao manages the volume of water withdrawals by considering that it is about the same as the previous year if it is in the range of 5% difference. In 2022, groundwater consumption increased by 0.1% compared to previous year, but since it is less than 5%, we chose "about the same". Since Kao plans to increase sales to achieve the 2030 target, production at plants using groundwater will increase, and groundwater withdrawals will also grow.
Ground water – non- renewa ble	Not rele vant	<not Applicabl e></not 	<not Applic able></not 	<not Applicabl e></not 	Kao has a policy of not using non-renewable groundwater as it was suggested by third-party experts to suspend the use of such water because it is precious. In this regard, non-renewable groundwater is not relevant. We will not change this policy in the future, so we will not take water from non-renewable groundwater either in the future.
Produced/ Entrained water	Not rele vant	<not Applicabl e></not 	<not Applic able></not 	<not Applicabl e></not 	Main products of our company include products used on human bodies, or body washing products. That is why our factories require pure water with a certain quality as a material. Therefore we don't use non-fresh water including produced/entrained water. We think that the possibility of using it in the future is low so far.

Third party	Rele	11097	Lower	Other,	Main products of our company include products used on human
sources	vant			please	bodies, or body washing products. That is why our factories require
				specify	pure water with a certain quality as a material. To secure quality
				(Decreas	water, we purchase 70% of our total water withdrawal from local
				e in	water utilities. Kao manages the volume of water withdrawals by
				water	considering that it is about the same as the previous year if it is in
				intake	the range of 5% difference. In 2022, the amount of water taken from
				volume	third-party water sources at the Wakayama Plant, which accounts
				due to	for approximately 35% of the water usage of the entire Group, has
				convenie	decreased by more
				nce of	than 10% from the previous year. The total amount of water intake
				contract	from third-party water sources decreased by 6.5% (more than 5%)
				with local	from the previous year, so we rated it as "lower." Since we plan to
				governme	increase sales to achieve the 2030 target, production at plants that
				nt)	bring in water from third-party sources will increase, and water
					withdrawal from third-party sources will also increase.

W1.2i

(W1.2i) Provide total water discharge data by destination.

	Relev ance	Volume (megalite rs/year)	Comp arison with previo us reporti ng year	Primary reason for comparis on with previous reporting year	Please explain
Fresh surface water	Rele vant	2842	Abou t the sam e	Increase/ decrease in efficiency	At 4 plants of Kao Group, used water is purified by the plant's purification equipment before being discharged to nearby rivers, so the Group's business is related to fresh surface water. So Kao manage it as the important factor to influent the environment around our factory. Kao manages the volume of effluent by considering that it is about the same as the previous year if it is in the range of 5% difference. In 2022, the Odawara plant increased 11% in wastewater discharges to river. On the other hand, the Fuji Plant's amount of wastewater discharged into river decreased by 11%. The Kao Group's overall discharge to surface water decreased by 2.1% from the previous year, which is less than 5%, so we selected 'almost the same'. Kao plans to increase sales in order to achieve the 2030 target, so production at plants that discharge wastewater to surface water will increase and so will emissions.
Brackis h surface water/s eawater	Rele vant	4991	Much lower	Other, please specify (Decreas e in water intake volume	At 6 plants and some offices in Kao Group, used water is purified by the plant's purification equipment before being discharged into the adjacent sea, so the Group's business is related to sea water. Kao is aware that the amount and quality of water discharged directly affect sea water quality. So Kao manage it as the important factor to influent the environment around our plants. Kao manages the volume of effluent by considering that it is about the same as the previous year if it is in the range of 5% difference. The volume of water withdrawal of

				due to convenie nce of contract with local governme nt)	the Wakayama Plant which accounts for about 90% of Kao Group's drainage to the sea, significantly decreased from the previous year. As a result, the volume of wastewater to the sea decreased by 13% and the total amount of wastewater to the sea after purification decreased by 12% from the previous year, which is more than 10%, so "Much lower" is selected.
Ground water	Not rele	<not Applicabl</not 	<not Applic</not 	<not Applicable</not 	Kao Group's business is not related to groundwater, as there are no plants or offices draining underground. We have never done drainage
	vant	e>	able>	>	to groundwater and we will not do it in the future.
Third- party destin ations	Rele vant	2703	Lower	Increase/ decrease in business activity	Many Kao plants discharge wastewater into sewer. Therefore, Kao is aware that the amount and quality of water discharged from such plants matter because they impact the quality of wastewater discharged from processing facilities run by other organizations located downstream of the sewer. For this reason, Kao manages discharging of wastewater to other organizations as one of the company's critical environmental load items. Kao manages the volume of effluent by considering that it is about the same as the previous year if it is in the range of 5% difference. In 2022, as a result of a decrease in total production volume and the efforts of Kao Group sites in water reduction activities, the amount of wastewater discharged to third parties decreased by 5.9% from the previous year. Since it is more than 5%, we chose "Lower."

W1.2j

(W1.2j) Within your direct operations, indicate the highest level(s) to which you treat your discharge.

	Releva nce of treatme nt level to	Volum e (megali ters/ye ar)	Comparis on of treated volume with	Primary reason for comparison with previous	% of your sites/facilities/ operations this volume applies to	Please explain
	dischar		previous	reporting		
	ge		reporting	year		
Terti ary treat ment	Releva nt	481	Lower	Other, please specify (In 2021, the amount of wastewater increased due to the expansion of facilities at the Kawasaki Plant, but in 2022, the amount of wastewater decreased as	1-10	At plants where secondary treatment is not enough to meet strict emission standards for wastewater such as COD, nitrogen, phosphorus, wastewater passes through additional facilities (tertially treatment) before discharging. For example, at Toyohashi Plant, COD is discharged in the cleaning process and nutrient nitrogen is added in the biological treatment process of wastewater treatment, thus this treatment is necessary. The treatment includes biological nitrification denitrification and activated carbon treatment. Since Kao periodically conducts water quality inspections, the concerned plants meet all the effluent standards and voluntary standards.

				the situation		In 2021, at Kawasaki Plant, which is one of the
				returned to		target plants, the amount of wastewater
				normal.)		Increased due to the increase in wastewater
						from intration equipment, etc. due to the
						expansion of pure water production equipment,
						the providue year. However, westewater
						decreased by 7.2% in 2022 from the providuo
						veer as the plant returned to normal operations
						The total amount of wastewater at all the target
						plants decreased by 5.6% in 2020 compared to
						the previous year. Since it is more than 5%.
						"Lower" is selected.
Seco	Releva	9609	Lower	Other,	61-70	In plants that do not meet effluent standards
ndary	nt			please		with only primary treatment, wastewater goes
treat				specify		through secondary treatment facilities
ment				(Decrease in		(biological treatment, coagulation
				water intake		sedimentation, etc.).
				volume due		For example, at Kashima Plant, COD, BOD, and
				to		SS are discharged in the reaction and cleaning
				convenience		processes, thus this treatment is necessary. The
				of contract		treatment is coagulation or biological treatment.
				with local		For plants that meet water quality standards
				government)		without removing phosphorus, nitrogen, and
						neavy metals from wastewater, we also carry out
						secondary treatment. Kao conducts water quality
						inspections on a regular basis, and most of the
						voluntary standards. We are
						currently considering applicable equipment for
						plants which may exceed the standards, in
						addition to the enhancement of operational
						management.One of the target plants,
						Wakayama Plant, which accounts for 45% of the
						total, had a significant decrease in water
						consumption in 2022 from the previous year,
						resulting in an 8.6% decrease in wastewater in
						2022 compared to the previous year at the target
						plants. Since it is more than 5%, "Lower" is
						selected.
Prim	Releva nt	128	Much	Change in	1-10	In plants that can meet the wastewater
ary	III		Ingrier	accountin		standards only by the primary treatment, the
mont				g mothodol		the primary treatment facility (physical
only						treatment) For example in a plant in Germany
Only				ogy		(KCG) discharges acid/alkali wastewater in the
						reaction process, which must be treated. The
						treatment includes pH adjustment. Kao conducts
						water quality inspections on a regular basis, and
						the plant meets all wastewater standards and
						voluntary standards. In addition, even if the pH
						of the wastewater after the primary treatment is
						adjusted and the wastewater is outsourced to a
						third party, the water quality is regularly
						inspected to confirm that it complies with the

						acceptance standards of the third party.For KCG, one of the target plants, which accounts for more than 98% of the total, the amount of wastewater was previously only from production, but from 2022, the operation was changed to include wastewater from sanitation facilities and a de-ironing plant (a plant that removes iron from well water that is used to cool production plants), resulting in a 39% increase in wastewater from the previous year. As a result, the amount of wastewater at the target plants increased 37% compared to the previous year. Since it is more than 10%, "Much higher" is selected.
Disch arge to the natura I enviro nment withou t treatm ent	Not releva nt	<not Applica ble></not 	<not Applicabl e></not 	<not Applicable></not 	<not Applicable></not 	All the business sites directly operated by Kao, which discharge wastewater to the natural environment conduct wastewater treatment. Therefore, this category, discharge to the natural environment without treatment, is not relevant to the group.
Disch arge to a third party witho ut treat ment	Releva nt	318	About the same	Increase/dec rease in business activity	11-20	Partially, some plants discharge wastewater directly into sewage, because they meet effluent standards without their own wastewater treatment facilities. Ehime Plant, for example, discharges only domestic wastewater and is deemed not to require industrial wastewater treatment. Although the amount of wastewater discharged at the target plants increased by 1.2% in 2022 compared to the previous year, it still remains below 5%. Therefore About the same is selected.
Other	Not releva nt	<not Applica ble></not 	<not Applicabl e></not 	<not Applicable></not 	<not Applicable></not 	None of the Kao Group's business sites are not relevant to this as all the Kao Group's business sites are applicable to one of the aforementioned selections.

(W1.2k) Provide details of your organization's emissions of nitrates, phosphates, pesticides, and other priority substances to water in the reporting year.

	Emissions to water in the reporting year (metric tonnes)	Category(ies) of substances included	List the specific substances included	Please explain
Row 1	35.8	Nitrates Phosphates	<not applicable=""></not>	Kao manufactured and sold phosphorus-containing surfactants and other phosphorus-containing compounds. As the raw wastewater contained phosphorus, we discharged in compliance with the standards set out in laws and regulations through appropriate monitoring and treatment. Production and use of surfactants containing phosphorus was discontinued in 2012 due to concerns about their impact on human health and the environment. Currently, Kao manufactures and sells nitrogen-containing compounds such as cationic surfactants. As a result, the raw wastewater contains nitrogen, which is discharged in compliance with the standards stipulated by laws and regulations through appropriate monitoring and treatment. On the other hand, in biological wastewater treatment, nitrogen and phosphorus are added as nutrients for micro-organisms, which in many cases remain in the effluent as nitrate and phosphate. To ensure compliance with the discharge standards set out in laws and regulations and to avoid nutrient deficiencies, monitoring and treatment is ongoing, taking local biodiversity into account.

W1.3

(W1.3) Provide a figure for your organization's total water withdrawal efficiency.

	Reve nue	Total water withdrawal volume (megaliters)	Total water withdrawal efficiency	Anticipated forward trend
R o w 1	1551 0590 0000 0	16516	93912509.08 21022	Kao is conducting reduction activities with the goal of reducing the total amount of water intake per sales. Therefore, it is expected that the water intake efficiency will tend to improve in the future.

(W1.4) Do any of your products contain substances classified as hazardous by a regulatory authority?

	Products contain hazardous substances	Comment
Row 1	Yes	<not applicable=""></not>

W1.4a

(W1.4a) What percentage of your company's revenue is associated with products containing substances classified as hazardous by a regulatory authority?

Regulatory classification of hazardous substances	% of revenue associated with products containing substances in this list	Please explain
Annex XVII of EU REACH Regulation	Less than 10%	Products containing substances included in the Annex XVII of REACH regulation accounted for 0% of sales in 2022.
Candidate List of Substances of Very High Concern for Authorisation above 0.1% by weight (EU Regulation)	Less than 10%	Products containing substances on the Candidate List of Substances of Very High Concern (EU Regulation) that accounted for more than 0.1% of the total sales were 3% of the total sales in 2022.

W1.5

(W1.5) Do you engage with your value chain on water-related issues?

	Engagement	Primary reason for no engagement	Please explain
Suppliers	Yes	<not applicable=""></not>	<not applicable=""></not>
Other value chain partners (e.g., customers)	Yes	<not applicable=""></not>	<not applicable=""></not>

W1.5a

(W1.5a) Do you assess your suppliers according to

their impact on water security? Row 1

Assessment of supplier impact

Yes, we assess the impact of our suppliers

Considered in assessment

Supplier dependence on water Supplier impacts on water availability Procurement spend

Number of suppliers identified as having a substantive impact

128

% of total suppliers identified as having a substantive impact 1-25

Please explain

Kao identified 176 of its direct raw material suppliers as essential in the value chain for water risk considerations, based on internal criteria that took into account the volume and price of purchases. These 176 suppliers are asked to respond to water security through the SCP SC program and their responses are evaluated to determine if they have a substantial impact. Suppliers that were determined to be inadequate according to the Kao criteria, such as those that did not respond to or were not able to respond to the questions of "Identify your water risk sites" and "Identify water withdrawal, wastewater discharge, and consumption and the changes," were determined as suppliers with potential substantial impacts. In the 2022 survey, 128 suppliers were listed to have potential substantial impacts. This constitutes 4% of all suppliers. Therefore, 1-25% is selected. We send the evaluation results as a feedback to suppliers to promote their engagement.

W1.5b

(W1.5b) Do your suppliers have to meet water-related requirements as part of your organization's purchasing process?

	Suppliers have to meet specific water-related requirements	Comment
Row 1	Yes, water-related requirements are included in our supplier contracts	<not applicable=""></not>

W1.5c

(W1.5c) Provide details of the water-related requirements that suppliers have to meet as part of your organization's purchasing process, and the compliance measures in place.

Water-related requirement

Complying with going beyond water-related regulatory requirements

% of suppliers with a substantive impact required to comply with this water-related requirement 100%

% of suppliers with a substantive impact in compliance with this water-related requirement 100%

Mechanisms for monitoring compliance with this water-related requirement Supplier self-assessment

Response to supplier non-compliance with this water-related requirement Retain and engage

Comment

Kao discloses its "Partnership Requirements for Suppliers," which calls for suppliers to engage in activities that contribute to our ESG vision, "Walking the Right Path", "Making Thoughtful Choices for Society", and "Making the World Healthier & Cleaner". In "Walking the Right Path", the company requests suppliers to implement measures to ensure compliance with laws and regulations and social norms. Moreover, in one of the items under "Making the World Healthier & Cleaner", the company requests suppliers their voluntary management including for water conservation and effective water usage.

Water-related requirement

Reporting against a sustainability index with water-related factors (e.g., DJSI, CDP Water Security questionnaire, etc.)

% of suppliers with a substantive impact required to comply with this water-related requirement 26-50

% of suppliers with a substantive impact in compliance with this water-related requirement 26-50

Mechanisms for monitoring compliance with this water-related requirement Supplier scorecard or rating

Response to supplier non-compliance with this water-related requirement Retain and engage

Comment

Through the CDP SC program, we are demanding answers to water security. In 2022, we requested responses from 176 companies. This is 40% of the raw material procurement cost. For each of the responses from 176 companies, we rated the activity level of disclosure level, awareness level, management level, and leadership level, and provided feedback on the results.

W1.5d

(W1.5d) Provide details of any other water-related supplier engagement activity.

Type of engagement Incentivization

Details of engagement Water management and stewardship is featured in supplier awards scheme

% of suppliers by number 76-99

% of suppliers with a substantive impact 76-99

Rationale for your engagement

Since Kao requests the plants of all suppliers to participate in Sedex, which allows us to survey waterrelated and other matters, respond to questions, and set data access rights in accordance with the Kao Guidelines for Supplier's Assessment, the coverage for both the number of suppliers and the purchase amount is 100%.

Impact of the engagement and measures of success

-Details of the engagement activity's beneficial outcomes

We believe that, as our suppliers improve their Sedex performance, their ability to respond to ESG issues including water management will improve. This will make our supply chain more resilient.

-A clear description of how success of supplier engagement is measured

By the end of 2021, suppliers of raw materials that had necessary settings in place that allow Kao to check their Sedex performance accounted for 88% of the total amount purchased by Kao. We consider that the first stage of success is the ability to check the activity status of all suppliers. In 2022, we evaluated Sedex performance on a five- point scale, specifically S, A, B, C, and No access right. Evaluation criteria are set in-house. Non-responding suppliers were assigned a No access right and suppliers with their response to a new SAQ at less than 80% were assigned a C. The new SAQ response

rate was 80% or higher and the management control score (0-5, the higher the value, the better the management) based on the Sedex assessment tool was rated as B for less than 2.0, A for 2.0 to 3.0, and S for 3.0 or higher. The evaluation results indicated that 62% of suppliers were rated either S or A. For Kao, the ultimate level of success is all suppliers gain an S or A rating.

Comment

Kao will continue to engage with all suppliers using Sedex.

W1.5e

(W1.5e) Provide details of any water-related engagement activity with customers or other value chain partners.

Type of stakeholder Customers

Type of engagement Education / information sharing

Details of engagement

Educate and work with stakeholders on understanding and measuring exposure to water-related risks Share information about your products and relevant certification schemes

Rationale for your engagement

The percentage of water consumption for each life cycle stage of Kao products is ascertained as follows. 88% is in the use stage, 11% in the raw material procurement stage, and 1% in the manufacturing stage. Therefore, Kao is working together with consumers, suppliers, and various other stakeholders involved in the plants to carry out a variety of activities. However, encouraging behavioral change among customers, who are most involved in the usage stage, which accounts for 88% of total usage, is effective in reducing tertiary water consumption. For this reason, we offer a program to instill the habit of conserving water whereby elementary schools could make us of the program in their classes. Our target is that the program is used in the classes of more than 400 schools each year, and that is taken as a success indicator of the program. In 2022, we gave lessons in 435 schools. The program encourages customers of all ages to conserve water by passing on the habits that elementary school students have developed to their parents at home.

Impact of the engagement and measures of success

We offer a program to instill the habit of conserving water whereby elementary schools could make us of the program in their classes. Our target is that the program is used in the classes of more than 400 schools each year, and that is taken as a success indicator of the program. In 2022, we gave lessons in 435 schools. The program encourages customers of all ages to conserve water by passing on the habits that elementary school students have developed to their parents at home.

W2.1

(W2.1) Has your organization experienced any detrimental water-related impacts? No

W2.2

(W2.2) In the reporting year, was your organization subject to any fines, enforcement orders, and/or other penalties for water-related regulatory violations?

	Water-related regulatory violations	Fines, enforcement orders, and/or other penalties	Comment
Row 1	No	<not applicable=""></not>	

W3. Procedures

W3.1

(W3.1) Does your organization identify and classify potential water pollutants associated with its activities that could have a detrimental impact on water ecosystems or human health?

	Identific ation and classific ation of potentia I water pollutan ts	How potential water pollutants are identified and classified	Ple ase expl ain
R o W I	Yes, we identify and classify our	Kao utilize a wide range of chemical and home-use products products, and we continue to implement activities to minimize the negative impacts of chemical substances at every stage from development to post-use disposal.	<no t App lica</no
	potentiai Water poliutants	In our Basic Principle and Basic Policies on Environment and Safety, we undertake to "assess environment and safety aspects throughout the entire lifecycle of the products, from manufacture through disposal, when developing products and technologies" and to "offer products with a lower environmental burden. Under the ESG Managing Committee, chaired by the President & CEO, the SAIGM Promotion Committee, established in 2012 as a committee to strategically address international goals related to chemicals management. Is the main activity body. I here are two ways to classify water pollutants in manufacturing and product development. In manufacturing, water pollutants are identified in compliance with the laws and regulations of the revention Act applies to Japanese manufacturing sites, in cases, where there are differences among countries or regions in voluntary standards, pollutants are identified by applying or verifying examples of laws and regulations in other countifies. In product development, at the time of product design, the company conducts risk assessment in order to control ingredients that are expected to be discharged into domestic wastewater.	DIG>

(W3.1a) Describe how your organization minimizes the adverse impacts of potential water pollutants on water ecosystems or human health associated with your activities.

Water pollutant category

Microplastics and plastic particles

Description of water pollutant and potential impacts

Some cleansers, body washes, and toothpastes contain scrubbing agents for the purpose of exfoliate pores or cleaning. One type of such scrubbing agent is "microplastic beads," which are solid plastic particles less than 5 mm in diameter.

When these microplastics are released into rivers and oceans where they are washed up, they do not decompose and remain in the environment, causing marine organisms to mistake them for food and eat them, leading to death in some cases and loss of biodiversity. There are also concerns that people may eat marine organisms that have ingested microplastics, which may cause health problems.

Value chain stage

Product use phase

Actions and procedures to minimize adverse impacts

Reduction or phase out of hazardous substances

Please explain

Products such as face washes, body washes, and toothpastes are products that may contain microplastics. Considering the situation related to microplastic beads, it is necessary to switch microplastic beads to alternative materials. Therefore, the complete switch from microplastic beads to alternative materials, and the absence of the use of microplastic beads in our products, was set as a success indicator. This initiative was completed at the end of 2016. All cleansers, body washes, and toothpastes produced and shipped in 2022 were microplastic beads free.

W3.3

(W3.3) Does your organization undertake a water-related risk assessment? Yes, water-related risks are assessed

W3.3a

(W3.3a) Select the options that best describe your procedures for identifying and assessing water-related risks.

Value chain stage Direct operations

Coverage Full

Risk assessment procedure

Water risks are assessed as part of an established enterprise risk management framework

Frequency of assessment Annually

How far into the future are risks considered?

More than 6 years

Type of tools and methods used

Tools on the market International methodologies and standards Other

Tools and methods used

WRI Aqueduct Life Cycle Assessment Internal company methods External consultants

Contextual issues considered

Water availability at a basin/catchment level Water quality at a basin/catchment level Stakeholder conflicts concerning water resources at a basin/catchment level Impact on human health Implications of water on your key commodities/raw materials Water regulatory frameworks Status of ecosystems and habitats Access to fully-functioning, safely managed WASH services for all employees

Stakeholders considered

Custo mers Emplo yees Invest ors Local communitie s NGOs Regulat ors Supplie rs Water utilities at a local level Other water users at the basin/catchment level

Value chain stage Supply chain

Coverage

Full

Risk assessment procedure Water risks are assessed as a standalone issue

Frequency of assessment Annually

How far into the future are risks considered? More than 6 years

Type of tools and methods used

Tools on the market International methodologies and standards Other

Tools and methods used

WRI Aqueduct Life Cycle Assessment Internal company methods

Contextual issues considered

Water availability at a basin/catchment level Stakeholder conflicts concerning water resources at a basin/catchment level Water regulatory frameworks Status of ecosystems and habitats Access to fully-functioning, safely managed WASH services for all employees

Stakeholders

considered Local communities Suppliers Water utilities at a local level Other water users at the basin/catchment level

Comment

Value chain stage Other stages of the value chain

Coverage Partial

Risk assessment procedure

Water risks are assessed as part of an established enterprise risk management framework

Frequency of assessment Annually

How far into the future are risks considered?

More than 6 years

Type of tools and methods used

Tools on the market International methodologies and standards Other

Tools and methods used

WRI Aqueduct Life Cycle Assessment Internal company methods

Contextual issues considered

Water availability at a basin/catchment level Stakeholder conflicts concerning water resources at a basin/catchment level Water regulatory frameworks Status of ecosystems and habitats Access to fully-functioning, safely managed WASH services for all employees

Stakeholders

considered

Local communities Suppliers Water utilities at a local level Other water users at the basin/catchment level

Comment

W3.3b

(W3.3b) Describe your organization's process for identifying, assessing, and responding to waterrelated risks within your direct operations and other stages of your value chain.

	Rationale for approach to risk assessment	Expla nation of conte xtual issues consi dered	Explanation of stakeholders considered	Decision-making process for risk response
R o	Water is not only used in Kao's products, but also that is needed during	Kao	-customer	In addition, once a year, an audit by the Responsible Care Promotion Committee

14/				
1	production. Therefore, water risk needs	identifi	Consumers are the	Secretariat confirms the status of water risks
l.	to be assessed in Kao's all five		most important	such as short term droughts, floods
	businesses such as Hygione & Living	es,	ntost important stokoholdor in	and tounamia. As criteria for accessing water
	Care Health & Reputy Care	too		rick we use the primery drought rick
	Care, Health & Deauty Care,	les,		nsk, we use the primary drought lisk
	Cosmetics, and Chemicals. Therefore,	and	risk. Consumer	assessment using Aqueduct, which was
	Kao uses Aqueduct for water risk		water consumption	identified through risk analysis results,
	assessment at all of its global	addres	auring product use	and a water stress assessment of the
	production sites. If any one of the three	ses	accounts for	watershed by an external consultant. In a
	items in the current drought risk survey	water-	approximately 90%	yearly audit, Kao confirms this assessment
	results and the "water stress		of water	flow once a year. A long-term
	forecast" for 2030 and 2040 fell into the	related	consumption	response plan is developed at each
	"Extreme high" category, the	risk	throughout the	production site, depending on the level of
				risk.
	site was rated as a site with water risk	every	product life cycle.	The officer responsible for SCM, the
	as a primary evaluation. On the	year.		Responsible Care Promotion Committee
	other hand, sites whose production		-employee	Secretariat, and others check and determine
	volume is less than 1% of Kao's total			the response and action for each
	are omitted as they will not have a		Kao is a company	production site. If the action and responses
	significant impact. This is the primary		that has a high	are found to be insufficient, the
	assessment of water stress.		affinity with water.	Responsible Care Promotion Committee
				requests improvement and gives
	External consultant investigates the		-Investor &	guidance.
	details of water stress in the		Community	
	watershed, including production sites		Kao requires a	
	estimated to be highly water		large amount of	
	stressed in accordance with CBWT's		water for products,	
	guidelines. Sites that have not yet		and we	
	been evaluated by a consultant are		understand that	
	designated as water risk sites, taking		gaining investor	
	over the results of the primary		and community	
	evaluation.		support is one of	
	The sites where water-related risks		the requirements	
	have materialized in the past 30		for sustainable	
	years due to water withdrawal		corporate activities.	
	restrictions or water quality issues were		•	
	assessed as having water risk. This is		-Regulatory	
	an internal method.		authority	
	LC-H2O is calculated annually over the		It is essential to	
	product life cycle. Identify the		understand the	
	high water use stage in raw material		trends of the	
	procurement, production,		regulatory	
			authorities	
	transportation, product use, and		in charge of	
	disposal.		emission control	
	•		and	
			take necessarv	
			measures to	
			continue stable	
			operation of the	
			factory.	
			-supplie	
			Kao's products use	
			a wide varietv	
			of chemical	
			substances and	
			paper	
			containers. and	
			these raw	
			materials are used	
			in the three	
			business fields that	
			use the most	
			water in Japan	
			(chemical steel	
			paper / paper	
			processing /	
			manufacturing)	

Therefore, we understand that most suppliers are highly dependent on water, and suppliers are important stakeholders when dealing with water risks. -Regional level water companies The water used in many factories is supplied by the local water system, but in this case, understanding the water management policy is the stability of the factory. -Other water users at the basin / catchment level We believe that it is important to use water within the range where Kao can coexist with other water users in the basin / catchment area.	
---	--

W4. Risks and opportunities

W4.1

(W4.1) Have you identified any inherent water-related risks with the potential to have a substantive financial or strategic impact on your business?

Yes, only within our direct operations

W4.1a

(W4.1a) How does your organization define substantive financial or strategic impact on your business?

- A definition of substantive financial or strategic impact is given

We define an event as having a substantive impact if the amount of financial damage exceeding 1 billion yen (or equivalent to roughly 0.1% of the sales figure) is expected to appear within ten years and continue for several years. We recognize that the relevant risk no longer exists if a measure for preventing the existence of the relevant risk has been developed and implemented.

We review the validity of this definition every year and correct it as necessary.

- The measure(s), metric(s) or indicator(s) used to identify substantive change

Kao evaluates substantial changes in terms of financial aspects and the continuity of direct operation.

- The threshold or amount of change in the metric/measure/indicator which indicates substantive change

We define an event as a substantive change if it is expected that the amount of financial damage will exceed 1 billion yen and a suspension of our operation in terms of direct operation for one day or more will appear within ten years. We define our production bases in areas marked with a high water risk level or higher either in 2030 or 2040 by Aqueduct, as potential changes. We recognize that the relevant risk ceases to exist if a measure has been developed and implemented to prevent the existence of the relevant risk.

We review the validity of this definition every year and correct it as necessary.

- Whether the definition applies to direct operations, or supply chain, or both The above definition applies to both direct operation and the supply chain.

- At least one example of substantive impact considered

In Japan, which accounts for over 60% of Kao's sales, torrential downpours hightide occurring due to climate change and natural disasters causing devastating damage, though in a limited area, are becoming apparent nowadays.

There are following risks to direct operation:

If such a torrential downpour hightide occurs in an area where there is a Kao plant or logistics base, we may need to suspend the production and supply of products, which would lead to not only a decrease in sales, but also reduced profit due to the cost of repairs incurred. For example, the book value of the facilities at the Wakayama Plant is 48 billion yen. If about 2% of the facility is damaged with the storm surge, it is equivalent to 1 billion yen, which Kao defines as the amount that will have a substantial impact on businesses. Based on our scenario analysis on climate change, Wakayama Plant is expected to be more likely to suffer from storm surges due to global warming. Therefore, the person in charge in the site is currently considering measures to reduce risks such as seawalls.

(W4.1b) What is the total number of facilities exposed to water risks with the potential to have a substantive financial or strategic impact on your business, and what proportion of your company-wide facilities does this represent?

	Total number of facilities exposed to water risk	% company-wide facilities this represents	Comment
R	8	1-25	We recognize that many of the sites in Asia which make
0			up the majority of Kao's bases have water risks.
W			
1			

W4.1c

(W4.1c) By river basin, what is the number and proportion of facilities exposed to water risks that could have a substantive financial or strategic impact on your business, and what is the potential business impact associated with those facilities?

Country/Area & River basin

China	Yangtze River (Chang Jiang)

Number of facilities exposed to water risk

1

% company-wide facilities this represents 1-25

Production value for the metals & mining activities associated with these facilities <Not Applicable>

% company's annual electricity generation that could be affected by these facilities <Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities <Not Applicable>

% company's total global revenue that could be affected 1-10

Comment

Country/Area & River basin

Philippines

Other, please specify (Cabulig)

Number of facilities exposed to water risk

1

% company-wide facilities this represents

1-25

Production value for the metals & mining activities associated with these facilities <Not Applicable>

% company's annual electricity generation that could be affected by these facilities <Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities <Not Applicable>

% company's total global revenue that could be affected 1-10

Comment

Country/Area & River basin

Thailand	Other, please specify (Bang Pakong)

Number of facilities exposed to water risk 1

% company-wide facilities this represents 1-25

Production value for the metals & mining activities associated with these facilities <Not Applicable>

% company's annual electricity generation that could be affected by these facilities <Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities <Not Applicable>

% company's total global revenue that could be affected 1-10

Comment

Country/Area & River basin

Indonesia Other, please specify (Saluran Irigasi Kali Malang and Sungai Bekasi)

Number of facilities exposed to water risk

1

% company-wide facilities this represents 1-25

Production value for the metals & mining activities associated with these facilities <Not Applicable>

% company's annual electricity generation that could be affected by these facilities <Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities <Not Applicable>

% company's total global revenue that could be affected 1-10

Comment

Taiwan, China

Number of facilities exposed to water risk

1

% company-wide facilities this represents 1-25

Production value for the metals & mining activities associated with these facilities <Not Applicable>

% company's annual electricity generation that could be affected by these facilities <Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities <Not Applicable>

% company's total global revenue that could be affected 1-10

Comment

Country/Area & River basin

Mexico	Balsas
--------	--------

Number of facilities exposed to water risk 1

% company-wide facilities this represents 1-25

Production value for the metals & mining activities associated with these facilities <Not Applicable>

% company's annual electricity generation that could be affected by these facilities <Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities <Not Applicable>

% company's total global revenue that could be affected 1-10

Comment

Country/Area & River basin

Spain

Other, please specify (El Besos)

Number of facilities exposed to water risk 1

% company-wide facilities this represents 1-25

Production value for the metals & mining activities associated with these facilities <Not Applicable>

% company's annual electricity generation that could be affected by these facilities <Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities <Not Applicable>

% company's total global revenue that could be affected 1-10

Comment

Country/Area & River basin

Japan

Other, please specify (Toyokawa)

Number of facilities exposed to water risk

1

% company-wide facilities this represents 1-25

Production value for the metals & mining activities associated with these facilities <Not Applicable>

% company's annual electricity generation that could be affected by these facilities <Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities <Not Applicable>

% company's total global revenue that could be affected 1-10

Comment

W4.2

(W4.2) Provide details of identified risks in your direct operations with the potential to have a substantive financial or strategic impact on your business, and your response to those risks.

Country/Area & River basin

China

Yangtze River (Chang Jiang)

Type of risk & Primary risk driver

Chronic physical

Primary potential impact

Constraint to growth

Company-specific description

Water resources are becoming increasingly scarce in China, which is due to the declining trend in precipitation and groundwater levels. In particular, China's business and industrial centers have very large populations and high industrial production, making water resources scarce. According to WRI Aqueduct Water Stress Projections, the water supply in the area where Kao Corporation Shanghai operates will be under strong stress in 2040. At the same time, interviews with plant employees have indicated that the number of residents will be on an upward trend in this area and the quality of water for daily living is predicted to deteriorate.

Meanwhile, Kao has a sales target of 2.5 trillion yen (161% of the 2022 target) for 2030. China is one of the extremely important regions for the Kao Group to achieve this target, and it is essential to increase production at the Chinese plants.

From the information described above, Kao has concluded that the risk to water availability and quality will increase in China, thus limiting future growth or profit increases for these plants. Production cannot increase if water availability will not rise or the efficiency of water use inside the plants does not increase. If this happens, production will remain the same even though it actually needs to increase by 61%, and resulting production will fall 38% short (((100/161) – 1)*100 = -38%).

Timeframe More than 6 years

Magnitude of potential impact Medium

Likelihood More likely than not

Are you able to provide a potential financial impact figure? Yes, a single figure estimate

Potential financial impact figure (currency) 90871000000

Potential financial impact figure - minimum (currency) <Not Applicable>

Potential financial impact figure - maximum (currency)

<Not Applicable>

Explanation of financial impact

In 2018, sales in China were 135.629 billion yen. If sales in China grow at the same rate as that needed for the Kao Group to achieve the 2030 sales target, sales in China in 2030 will be 226.5 billion yen. If this sales growth does not become a reality due to water risk, the impact is forecast to be 90.871 billion yen (90.871 = 226.5 - 135.629)

Description of response

Kao has set a goal to improve the water usage efficiency in the entire Group by 45% by 2030. To achieve this, we set company-wide goals on a yearly basis. Based on this company-wide goals, each business site in each country sets a goal every year. In order to achieve the goal, we reuse water for boilers and cooling, recover steam after use, purify and reuse water used in processes, and effectively use rainwater. Since the area where Kao Corporation Shanghai operates has a particularly high risk of water supply in the future, the company is ambitiously working on to improve water consumption efficiency and continues to reduce the risk of hindering business growth. At the plant of Kao Corporation Shanghai, it is promoting activities to improve water efficiency, such as leak prevention measures and the introduction of water-saving equipment, water withdrawal in 2022 increased by 2.0% compared to the previous year.

Cost of response 8000000

Explanation of cost of response

The volume of water intake by Kao Corporation Shanghai, a plant that stands in a river basin, was 51.88 million liters in 2022. If this plant's production increases at the same rate as that needed for the Kao Group to achieve the 2030 sales target, but the intensity of water use remains the same, the volume of water intake will increase by

31.74 million liters. The cost of recycling effluent generated from this additional amount of water has been calculated obtained. At one particular manufacturer, the annual running cost of an effluent recycling facility with a water-treatment capacity of 25 million liters per year is 6.3 million yen. When applying this running cost to our case, the necessary cost will be 8.00 million yen (8.00 = 6.3/25*31.74).

W4.2c

(W4.2c) Why does your organization not consider itself exposed to water risks in its value chain (beyond direct operations) with the potential to have a substantive financial or strategic impact?

	Primary	Please explain
	reason	
Row 1	Risks exist, but no substantive impact anticipated	Kao identified 176 of its direct raw material suppliers as essential in the value chain for water risk considerations, based on internal criteria that took into account the volume and price of purchases. These 176 suppliers are asked to respond to water security through the SCP SC program and their responses are evaluated to determine whether significant water risks exist in Kao's value chain. Based on the answers to the questions "Conduct a survey of water risk locations" and "Determine the amount of water withdrawn, discharged, consumed, and changes in consumption," it was determined that no suppliers are exposed to significant water risk. In other words, based on these results, we recognize that plants of suppliers are significantly affected by water risk financially or strategically. The flow of activities and results are managed by the Risk and Crisis Management Committee. Many of Kao's products require large amounts of water at the time of use during the life cycle of the product. If water infrastructure is not installed at a pace commensurate with the GDP growth rate of the countries and regions where Kao is expected to dramatically increase sales in the future, product sales may be at risk. A person in charge investigate the water infrastructure. As a result, at this time, we do not expect any significant financial or strategic impact during the product use phase.

(W4.3) Have you identified any water-related opportunities with the potential to have a substantive financial or strategic impact on your business?

Yes, we have identified opportunities, and some/all are being realized

W4.3a

(W4.3a) Provide details of opportunities currently being realized that could have a substantive financial or strategic impact on your business.

Type of opportunity Efficiency

Primary water-related opportunity

Cost savings

Company-specific description & strategy to realize opportunity

Kao has set a target of reducing the amount of water consumption in direct operations by 45% compared to 2005 by 2030. In addition, as a milestone, we have set a goal of reducing 43% by 2025. At each Kao plant, we are working on reduction activities to achieve the company-wide target set at the end of the previous year (2022 target: 41% reduction). Each plant uses water for compounding products and cleaning and cooling equipment. In order to continue stable operation of plants and conserve the ecosystem of the basin where the plants operate, we set a reduction target for water consumption every year and work on water consumption reduction and reuse from the viewpoint of 3R (Reduce, Reuse, Recycle). For example, Kao Thailand has reduced the amount of water consumption by making efforts to improve the efficiency of pure water production. In 2022, the total water consumption of the Kao Group was reduced by 17% compared to 2005. If this reduction is achieved, 1.480billion yen will be reduced. This reduction estimate is greater than the value which Kao determines to have a material impact.

Estimated timeframe for realization Current - up to 1 year

Magnitude of potential financial impact Medium

Are you able to provide a potential financial impact figure? Yes, a single figure estimate

Potential financial impact figure (currency) 1250000000

Potential financial impact figure – minimum (currency) <Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact

The sales target for Kao products for 2030 is 2.5 trillion yen. If the cost of water required to manufacture such products accounts for 0.1% of sales, the cost of water will be

2.5 billion yen. Thus, it can be expected that improving the water usage efficiency by 50% will reduce the cost by 1.25 billion yen.

W5.1

(W5.1) For each facility referenced in W4.1c, provide coordinates, water accounting data, and a comparison with the previous reporting year.

Facility reference number Facility 1

Facility name (optional) Kao Corporation Shanghai

Country/Area & River basin

China Yangtze River (Chang Jiang)

Latitude 31.03815

Longitude 121.38262

Located in area with water stress Yes

Primary power generation source for your electricity generation at this facility <Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

51.88

Comparison of total withdrawals with previous reporting year About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes 0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable 0

Withdrawals from produced/entrained water 0

Withdrawals from third party sources 51.88

Total water discharges at this facility (megaliters/year) 42.48

Comparison of total discharges with previous reporting year About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater 0

Discharges to groundwater 0

Discharges to third party destinations 42.48

Total water consumption at this facility (megaliters/year) 9.4

Comparison of total consumption with previous reporting year About the same

Please explain

In 2022, production decreased by 16% compared to the previous year, but water intake increased by 2.0%, discharged water increased by 3.2%, and water usage decreased by 2.8%. One of the causes is the change in product composition. While production of beauty care and household products decreased, production of sanitary products, which use a lot of water, increased. In addition, during the lockdown due to the spread of the new coronavirus infection, more than 100 employees stayed at the factory and continued production, so the consumption of domestic water increased.

Facility reference number

Facility 2

Facility name (optional) Pilipinas Kao, Incorporated

Country/Area & River basin

Philippines	Other, please specify (Cabulig)

Latitude 8.652755

Longitude 124.756451

Located in area with water stress Yes

Primary power generation source for your electricity generation at this facility <Not Applicable>

Oil & gas sector business division <not applicable=""></not>
Total water withdrawals at this facility (megaliters/year) 1144.06
Comparison of total withdrawals with previous reporting year About the same
Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes 0
Withdrawals from brackish surface water/seawater 0
Withdrawals from groundwater - renewable 1144.06
Withdrawals from groundwater - non-renewable 0
Withdrawals from produced/entrained water 0
Withdrawals from third party sources 0
Total water discharges at this facility (megaliters/year) 191.93
Comparison of total discharges with previous reporting year Higher
Discharges to fresh surface water 0
Discharges to brackish surface water/seawater 191.93
Discharges to groundwater 0
Discharges to third party destinations 0
Total water consumption at this facility (megaliters/year) 952.13

Comparison of total consumption with previous reporting year About the same

Please explain

In 2022, production will decrease by 6.0% compared to the previous year, but water intake will increase by 2.0%, wastewater will increase by 9.5%, and water consumption will increase by 1.1%. The increase in water withdrawals and water usage is due to the high water usage due to the hydraulic testing of the new storage tanks in 2022. The increase in wastewater discharge is also due to the addition of rainwater to the normal wastewater discharge from the factory due to the many heavy rains in the second half of 2022.

Facility reference number Facility 3

Facility name (optional) Kao Industrial (Thailand) Co., Ltd.

Country/Area & River basin

Thailand Other, please specify (Bang Pakong)

Latitude 13.326396

Longitude 101.003311

Located in area with water stress Yes

Primary power generation source for your electricity generation at this facility <Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year) 617.88

Comparison of total withdrawals with previous reporting year About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes 0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable 0

Withdrawals from produced/entrained water 0

Withdrawals from third party sources 617.88

Total water discharges at this facility (megaliters/year) 467.37

Comparison of total discharges with previous reporting year About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations 467.37

Total water consumption at this facility (megaliters/year) 150.51

Comparison of total consumption with previous reporting year Lower

Please explain

In 2022, production volume will increase by 1.2% compared to the previous year, but water intake volume will increase by 0.5% year-on-year, wastewater volume will increase by 3.9% year-on-year, and water consumption volume will decrease by 8.7% year-on-year. This is the result of water reduction activities implemented in 2022.

Facility reference number Facility 4

Facility name (optional)

PT. Kao Indonesia Chemicals

Country/Area & River basin

Indonesia Other, please specify (Saluran Irigasi Kali Malang and Sungai Bekasi)

Latitude

-6.219573

Longitude 107.065754

Located in area with water stress Yes

Primary power generation source for your electricity generation at this facility <Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year) 32.41

Comparison of total withdrawals with previous reporting year Much lower

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes 0

Withdrawals from brackish surface water/seawater 0

Withdrawals from groundwater - renewable

Withdrawals from groundwater - non-renewable 0

Withdrawals from produced/entrained water 0

Withdrawals from third party sources 32.41

Total water discharges at this facility (megaliters/year) 255.56

Comparison of total discharges with previous reporting year Much lower

Discharges to fresh surface water 0

Discharges to brackish surface water/seawater 0

Discharges to groundwater

0

Discharges to third party destinations 255.56

Total water consumption at this facility (megaliters/year) 176.85

Comparison of total consumption with previous reporting year About the same

Please explain

In 2022, although the production volume decreased by 17% compared to the previous year, the amount of water intake decreased by 12% compared to the previous year, the amount of wastewater decreased by 20%, and the amount of water used increased by 3.9%. The reason why the rate of decrease in wastewater discharge exceeded the rate of decrease in water intake was that in 2021, rainwater mixed with the WWT increased the amount of wastewater discharged, but in 2022, the amount of rainwater mixed in was low. As a result, the amount of water used (= amount of water intake - amount of wastewater) appears to be increasing, but it is actually decreasing.

Facility reference number Facility 5

Facility name (optional) Kao (Taiwan) Corporation

Country/Area & River basin

Taiwan, China

Other, please specify (Touqian River)

Latitude 24.803945

Longitude 120.964686

Located in area with water stress Yes

Primary power generation source for your electricity generation at this facility <Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year) 185.72

Comparison of total withdrawals with previous reporting year About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes 0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable 0

Withdrawals from groundwater - non-renewable 0

Withdrawals from produced/entrained water 0

Withdrawals from third party sources 185.72

Total water discharges at this facility (megaliters/year) 81.7

Comparison of total discharges with previous reporting year About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater 0

Discharges to third party destinations 81.7

Total water consumption at this facility (megaliters/year)

104.72

Comparison of total consumption with previous reporting year Higher

Please explain

In 2022, production decreased by 7.8% compared to the previous year, but water intake increased by 3.1% compared to the previous year. This was due to a 6.6% year-on- year increase in water usage due to an increase in the ratio of products containing a large amount of water. In addition, as a result of promoting activities to reduce cleaning water used in production lines, the amount of wastewater decreased by 1.0% compared to the previous year.

Facility reference number Facility 6	
Facility name (optional) Quimi-Kao S.A. de C.V.	
Country/Area & River basin	
Mexico	Balsas
Latitude 19.947483	
Longitude -101.640844	
Located in area with water stress Yes	
Primary power generation source for your electri <not applicable=""></not>	city generation at this facility
Oil & gas sector business division <not applicable=""></not>	
Total water withdrawals at this facility (megaliters 204.79	s/year)
Comparison of total withdrawals with previous re Lower	eporting year
Withdrawals from fresh surface water, including 0	rainwater, water from wetlands, rivers and lakes
Withdrawals from brackish surface water/seawate	er
Withdrawals from groundwater - renewable 175.18	
Withdrawals from groundwater - non-renewable 0	
Withdrawals from produced/entrained water	

CDP

0

Withdrawals from third party sources 129.32

Total water discharges at this facility (megaliters/year) 123.62

Comparison of total discharges with previous reporting year Much lower

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater 0

Discharges to groundwater

Discharges to third party destinations 123.62

Total water consumption at this facility (megaliters/year) 80.88

Comparison of total consumption with previous reporting year Much higher

Please explain

In 2022, production decreased by 5.3% compared to the previous year, water intake decreased by 5.6% compared to the previous year, but water discharge decreased by 15% compared to the previous year. In 2021, due to deterioration in the quality of reclaimed water purchased from an external wastewater treatment plant, a large amount of water was rejected because it did not meet internal water quality standards. This is because the amount of rejected water has been greatly reduced by starting to purchase osmotic membrane-treated water directly.

In 2021, we reduced the intake of reclaimed water purchased from external sources and increased the intake of groundwater. water intake is decreasing.

Facility reference number Facility 7

Facility name (optional) Kao Corporation S.A. Mollet plant

Country/Area & River basin

Spain

Other, please specify (El Besos)

Latitude 41.525107

Longitude 2.213861

Located in area with water stress Yes
Primary power generation source for your electricity generation at this facility <not applicable=""></not>
Oil & gas sector business division <not applicable=""></not>
Total water withdrawals at this facility (megaliters/year) 148.97
Comparison of total withdrawals with previous reporting year About the same
Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes 0
Withdrawals from brackish surface water/seawater 0
Withdrawals from groundwater - renewable 0
Withdrawals from groundwater - non-renewable 0
Withdrawals from produced/entrained water 0
Withdrawals from third party sources 148.97
Total water discharges at this facility (megaliters/year) 107.83
Comparison of total discharges with previous reporting year About the same
Discharges to fresh surface water 0
Discharges to brackish surface water/seawater 0
Discharges to groundwater 0
Discharges to third party destinations 107.83
Total water consumption at this facility (megaliters/year) 41.14
Comparison of total consumption with previous reporting year Lower

Please explain

In 2022, the production volume decreased by 17.5% compared to the previous year, but the amount of

water intake decreased by 4.7% compared to the previous year, the amount of discharged water decreased by 2.6% compared to the previous year, and the amount of water used decreased by 9.9% compared to the previous year. As a baseline, there is water usage (e.g. steam generation, cleaning, etc.) that does not depend on changes in production volume, so the rate of decrease in water intake and wastewater is smaller than the rate of decrease in production volume.

Facility reference number Facility 8

Facility name (optional) Kao Corporation, Toyohashi plant

Country/Area & River basin

Japan

Other, please specify (Toyokawa)

Latitude 34.708937

Longitude 137.322836

Located in area with water stress No

Primary power generation source for your electricity generation at this facility <Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

178.88

Comparison of total withdrawals with previous reporting year About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes 0

Withdrawals from brackish surface water/seawater 0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water 0

Withdrawals from third party sources 178.88

Total water discharges at this facility (megaliters/year) 97.58

Comparison of total discharges with previous reporting year About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater 97.58

Discharges to groundwater 0

Discharges to third party destinations 0

Total water consumption at this facility (megaliters/year) 81.29

Comparison of total consumption with previous reporting year Higher

Please explain

In 2022, the production volume will increase by 2.3% compared to the previous year, the amount of water intake will increase by 3.5% compared to the previous year, and the amount of water will decrease by 1.0% compared to the previous year. On the other hand, the amount of water used increased by 9.5% from the previous year, but this was due to the increase in the amount of water used for products, as well as the large amount of industrial water used for the warehouse construction work on the premises.

(W5.1a) For the facilities referenced in W5.1, what proportion of water

accounting data has been third party verified? Water withdrawals -

total volumes

% verified 76-100

Verification standard used ISAE3000, limited assurance

Please explain <Not Applicable>

Water withdrawals - volume by source

% verified 76-100

Verification standard used ISAE3000, limited assurance

Please explain <Not Applicable>

Water withdrawals - quality by standard water quality parameters

% verified Not verified

Verification standard used <Not Applicable>

Please explain This is not a company-wide management target item.

Water discharges - total volumes

% verified 76-100

Verification standard used ISAE3000, limited assurance

Please explain <Not Applicable>

Water discharges – volume by destination

% verified 76-100

Verification standard used ISAE3000, limited assurance

Please explain <Not Applicable>

Water discharges – volume by final treatment level

% verified Not verified

Verification standard used <Not Applicable>

Please explain This is not a company-wide management target item.

Water discharges – quality by standard water quality parameters

% verified 76-100

Verification standard used ISAE3000, limited assurance

Please explain <Not Applicable>

Water consumption – total volume

% verified Not verified

Verification standard used <Not Applicable>

Please explain This is not a company-wide management target item.

W6.1

(W6.1) Does your organization have a water policy?

Yes, we have a documented water policy that is publicly available

W6.1a

(W6.1a) Select the options that best describe the scope and content of your water policy.

	Scope	Content	Please explain		
Row 1	Company-	Description of business	Kao's products such as liquid laundry detergents and		
	wide	dependency on water	shampoos use water as one of raw materials, and Kao's		
		Description of business impact	business relies heavily on water. Raw material stage		
		on water	accounts for about 10% of the amount of water consumed		
		Commitment to align with	throughout the product life cycle. And Kao's business has a		
		international frameworks,	great impact on local water risks, as the amount of water		
		standards, and widely-	consumed at the use stage accounts for about 90%.		
		recognized water initiatives	Water- and environment-related policies are		
		Commitment to prevent,	Water- and environment-related policies are		
		minimize, and control pollution	included in the following 6 policies. All		
		Commitment to reduce or phase-	policies apply to the entire Kao Group. Kirei		
		out hazardous substances	Lifestyle Plan as our ESG strategy		
		- Company water targets and goals: Kao reduces its lifecycle water consumption per unit of production by 10% (target year: 2030, base year: 2017).			
		Commitment to reduce water withdrawal and/or consumption	Commitment to align with public policy initiatives, such as the SDGs: Kao's water targets are related to SDGs 6, 12, 15 and		
		volumes in supply chain	The company aims to achieve a 1%		
		Commitment to water	reduction in water withdrawal in direct		
		stewardship and/or collective	operations each year. Environmental		
		action Commitments beyond			
		regulatory compliance	Commitment to water-related innovation: Kao has set a		
		Reference to company water-	target of reducing water (in Japan) of overall Kao Group		
		related targets	product lifecycles by 10% in the medium- term target for the		
		Acknowledgement of the human	vear 2030 (per unit of sales, 2017 base vear)		
	right to water and sanitation Design for Enviro		Design for Environment Guidelines		
		Recognition of environmental	- Commitment to water stewardship and/or collective action:		
		linkages, for example, due to	Kao is checking reduce water amount at use phase in		
		climate change	Design for Environment Guidelines. Responsible Care		
			. Commitments beyond regulatory compliance: Kao shall		
			comply with all relevant laws regulations and agreements in		
			all aspects of its business activities, and shall establish and		
			faithfully implement voluntary standards of conduct		
			The company strives to continue to reduce environmental		
			impact by optimizing the use of water, raw materials and		
			other resources; promoting resource recycling by reducing,		

reusing, and recycling waste, including plastics; and
disposing of wastewater and waste gas appropriately.
Purchasing guidelines
- Description of water-related standards for procurement
 Reference to international standards and widely-recognized water initiatives
In the Partnership Requirements for Suppliers, the company
requests suppliers their voluntary management including for
water conservation and effective water usage.
Human rights policy ; following content apply to WASH
- Acknowledgement of the human right to
water and sanitation: Kao provides a safe
and pleasant working environment.
Responsible Chemicals Management
Promotion Policy
- Minimize environmental impact throughout the product life cycle

W6.2

(W6.2) Is there board level oversight of water-related issues within your organization? Yes

W6.2a

(W6.2a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for water-related issues.

Positio n of individ ual or commit tee	Responsibilities for water-related issues
Chief Executi ve Officer (CEO)	Water-related risks are managed by the RC Committee and the Risk Crisis Committee under the jurisdiction of the Internal Control Committee(chaired by the CEO). Persons (executive officer) to deal with each identified risk are assigned. The person in charge shall formulate and implement countermeasures and report the status of the measures to the committee.
()	Opportunities for water are managed by the ESG Management Committee. A person in charge (executive officer) shall be appointed for each identified opportunity. The person in charge shall formulate and implement the implementation of the KPI and the overall promotion plan, and the committee shall report on the progress. The CEO serves as the chairman of the committee.
	The activities of the above committees are being oversight by the board. Accordingly, the CEO has all responsibility and authority for Kao's water issues.
	Case Study: In 2022, the Board of Directors has decided that there is no need to revisit the water target of "10% reduction in full-lifecycle water use per unit of sales (Base year: 2017)" because the target is on track and achieving the target would contribute to avoiding water risks in society. Therefore, the CEO has

W6.2b

(W6.2b) Provide further details on the board's oversight of water-related issues.

	Frequency that water- related issues are a scheduled agenda item	Governance mechanisms into which water-related issues are integrated	Please explain
Row	Scheduled -	Monitoring	The Risk and Crisis Management Committee holds a meeting at least four times per year and the Responsible Care Promotion Committee checks the status of activities at
1	some	implementation	bases every month. Both committees are under the Internal Control Committee, which is under the control of the Board of Directors, and manage water-related risks. The ESG
	meetings	and	Management Committee, which is under the control of the Board of Directors, holds a meeting at least four times per year and manages water- related opportunities. The status
		performance	of activities of these committees is explained to the Board of Directors by the secretary-general of each committee. Since water-related issues have an impact on Kao's
		Overseeing	business and thus must be supervised as one of the business management issues, they are under the oversight of the Internal Control Committee and the ESG Committee.
		acquisitions,	with the CEO serving as chairperson.
		divestitures	
		Overseeing	
		expenditures	
		Providing	
		employee	
		Reviewing and	
		guiding annual	
		budgets	
		Reviewing and	
		business plans	
		Reviewing and	
		guiding	
		responsibility	
		strategy	
		Reviewing and	
		guiding major	
		Reviewing and	
		guiding risk	
		management	
		policies Reviewing and	

	guiding strategy Reviewing innovation/R&D priorities Setting performance objectives	
--	--	--

W6.2d

(W6.2d) Does your organization have at least one board member with competence on water-related issues?

	Board member(s) have compete nce on water- related issues	Criteria used to assess competence of board member(s) on water-related issues	Primary reason for no board- level competenc e on water- related issues	Explain why your organization does not have at least one board member with competence on water-related issues and any plans to address board-level competence in the future
R o w 1	Yes	Worked in R&D that is responsible for the development of water-related products for one year or more, or in divisions related to water risk management such as the ESG Division and the Supply Chain Management Division, or served as a member of the Risk & Crisis Management Committee.	<not Applicable></not 	<not applicable=""></not>

W6.3

(W6.3) Provide the highest management-level position(s) or committee(s) with responsibility for waterrelated issues (do not include the names of individuals).

Name of the position(s) and/or committee(s) Chief Executive Officer (CEO)

Water-related

responsibilities of this

position Assessing future trends in water demand Assessing water-related risks and opportunities Managing water-related risks and

opportunities

Frequency of reporting to the board on water-related issues Quarterly

Please explain

Under the Board of Directors is the Internal Control Committee(ICC). Risk and Crisis Management Committee(RCMC) and Responsible Care Promotion Committee(RCPC), both under the ICC, manage water-related risk, while ESG Committee, under the Board, manages water-related opportunities. CEO chairs RCMC and RCPC. Under CEO's direction, these committees report on goals, plans, and results for water-related issues and revision proposals for plans (if necessary) to the Board once a year or more. This means water-related issues are reported to the Board four or more times a year.

RCMC has established a system for managing water risk and a plan for operating the system, and RCPC checks that the plan is carried out properly at all divisions, subsidiaries, and affiliated companies. ESG Committee is responsible for setting the direction of activities and promoting them. CEO is responsible for water risk management system developed by RCMC, its operational plans and implementations checked by RCPC.

W6.4

(W6.4) Do you provide incentives to C-suite employees or board members for the management of waterrelated issues?

	Provide incentives for management of water-related issues	Comment
Row 1	Yes	

W6.4a

(W6.4a) What incentives are provided to C-suite employees or board members for the management of water-related issues (do not include the names of individuals)?

	Role(s) entitled to incentiv e	Performance indicator	Contribution of incentives to the achievement of your organization's water commitments	Please explain
Monetary	Director on	Reduction of	Kao's directors and executive officers can receive long-term incentive compensation according	Our Policies for Procurement states that "We strive to fulfill our corporate
reward	board	water	to ESG strength metrics, including performance of water activities. The evaluation of the ESG	social responsibilities aiming to contribute to the achievement of a
	Corporate	withdrawals –	strength evaluation index is determined by the evaluation by external indicators such as DJSI.	sustainable society by giving full consideration to preservation of resources
	executive	direct	CDP, Climate Change, Water Security, and Forest, as well as by the degree of achievement of	and the environment, safety, human rights and other social issues. We
	team	operations	goals such as "10% reduction in ful lifecycle water use per unit of sales (Base year: 2017)" and	exchange necessary information with suppliers and evaluate mutually with
	Chief	Reduction of	others. Long-term incentive rewards are paid 0-40% of the basic reward depending on the	sincerity trading conditions, mutual behavior and so forth in transactions,
	Procurem ent	water	outcome.Kao's Chief Procurement Officer (CPO) are eligible to receive long-term incentive	striving to improve both sides." Also, our Partnership Requirements for
	Officer	withdrawal	compensation according to ESG	Suppliers states voluntary management

		and/or consumption volumes – supply chain Improvements in water efficiency – supply chain Improvements in water efficiency – product use Improvements in wastewater quality – direct operations Improvements in wastewater quality – direct operations Improvements in wastewater quality – supply chain	strength metrics, including performance of water activities. The evaluation of the ESG strength evaluation index is determined by the evaluation by external indicators such as DJSI, CDP, Climate Change, Water Security, and Forest, as well as by the degree of achievement of goals such as "10% reduction in full lifecycle water use per unit of sales (Base year: 2017)" and others. In addition, CPO is eligible to receive short-term incentive compensation based on individual performance related to stable procurement of raw materials, such as reduction of water withdrawal and consumption in the supply chain, water efficiency improvements and wastewater improvements, and supplier engagement. Individual performance for short-term incentive compensation ranges from 0-25% of base compensation, depending on performance.	including for water conservation and effective water usage. Therefore, Kao's Chief Procurement Officer's (CPO) long-term and short-term incentive compensation includes reductions in supply chain water withdrawal and consumption, water efficiency improvements and wastewater improvements, and supplier engagement.
		Supply chain engagement		
Non- monetary reward	No one is entitled to these incentives	<not Applicable></not 	<not applicable=""></not>	Kao does not grant C-Suite employees or board members recognition (non- monetary).

W6.5

(W6.5) Do you engage in activities that could either directly or indirectly influence public policy on water through any of the following?

Yes, direct engagement with policy makers

W6.5a

(W6.5a) What processes do you have in place to ensure that all of your direct and indirect activities seeking to influence policy are consistent with your water policy/water commitments?

At each Kao site, we regularly check public policies and regulations in the relevant areas regarding water risk every year. Significant changes in public policies will be reported to the Risk & Crisis Management

Committee (RCMC). RCMC confirms the impact of policy changes on all business sites, and if there is any inconsistency, proposes changes to their policies and targets. These proposals will be deliberated and approved by the ESG Managing Committee chaired by the CEO. And then, Kao supports the Water Project activities of Japan's policy makers who are working on communicating the importance of water used in Japan. To support their activities, the secretariat of the

ESG Managing Committee, which manages water-related opportunities, consults with the relevant policy makers to understand the objective and details of such activities. The secretary-general of the ESG Managing Committee determines whether the details are consistent with Kao's policies and how Kao should support such activities. If there is any inconsistency with Kao's policies, Kao will report it to the policy makers and ask for the inconsistency to be resolved. If the inconsistency is not resolved, Kao will suspend the support for such activities based on the decision of the secretary-general of the ESG Managing Committee.

W6.6

(W6.6) Did your organization include information about its response to water-related risks in its most recent mainstream financial report?

Yes (you may attach the report - this is optional)

W7. Business strategy

W7.1

(W7.1) Are water-related issues integrated into any aspects of your long-term strategic business plan, and if so how?

	Are water- related issues integrated?	Long- term time horizon (years)	Please explain
Long- term business objectives	Yes, water- related issues are integrated	11-15	In 2019, Kao declared that the Kao Group will make a major shift to ESG-driven management as it takes on new challenges to build the foundation for enabling sustainable growth in 2025, 2030, and beyond. We are promoting activities that embody the Kirei Lifestyle Plan (KLP), an environmental, social, and governance (ESG) strategy announced in April 2019. In the KLP, Kao aims to realize three commitments by 2030. Of these, water conservation is included in Kao's actions, as the company has declared that by 2030, 100% of our products will leave a full life cycle environmental footprint that science says our natural world can safely absorb. In 2019, we set a target for water conservation: "10% reduction in full-lifecycle water use per unit of sales by 2030 (Base year: 2017)." Achievement of this goal is a success indicator of activities related to water conservation. The "11- 15" year period is selected, given that we have set a 2030 target in 2019.

Strategy for achieving long-term objectives	Yes, water- related issues are integrated	11-15	We have set as a mid- to long-term goal for water conservation that by 2030, 100% of our products will leave a full lifecycle environmental footprint that science says our natural world can safely absorb. In 2019, we have set a target of 10% reduction in full- lifecycle water use per unit of sales by 2030 (Base year: 2017). As the product use stage accounts for around 90% of total lifecycle water usage for Kao products, it is necessary to develop water- saving products. Since the development period for new products that will contribute to achieving the target is set at 11-15 years, the "11- 15" year period is selected.
Financial planning	Yes, water- related issues are integrated	11-15	We have set as a mid- to long-term goal for water conservation that by 2030, 100% of our products will leave a full lifecycle environmental footprint that science says our natural world can safely absorb. In 2019, we have set a target of 10% reduction in full- lifecycle water use per unit of sales by 2030 (Base year: 2017). As the product use stage accounts for around 90% of total lifecycle water usage for Kao products, it is necessary to develop water- saving products. Since the development period for new products that will contribute to achieving the target is set at 11-15 years, and R&D expenses for this purpose are allocated each year.

W7.2

(W7.2) What is the trend in your organization's water-related capital expenditure (CAPEX) and operating expenditure (OPEX) for the reporting year, and the anticipated trend for the next reporting year?

Row 1

```
Water-related CAPEX (+/- % change)
```

13

```
Anticipated forward trend for CAPEX (+/- % change)
```

5

Water-related OPEX (+/- % change) 7.9

Anticipated forward trend for OPEX (+/- % change)

5

Please explain

CAPEX and OPEX are calculated annually. CAPEX is the annual tally of investments made in relation to water abstraction and wastewater treatment, including measures to reduce water abstraction, improve wastewater treatment capacity (e.g. updating equipment related to wastewater treatment facilities) and prevent wastewater spillages

(e.g. updating pipes and gate valves), etc. CAPEX in 2021 was JPY 571 million, compared with JPY 645 million in 2022. The increase was (645-571)/571 = 13%. And operational costs (e.g. wastewater chemical costs, etc.) for maintaining and managing water intake and wastewater-related facilities are counted each year as OPEX. OPEX in 2021 was JPY 216 million, while in 2022 it was JPY 233 million, resulting in an increase of (233-216)/216 = 7.9%. Next year, both CAPEX and OPEX are expected to increase by 5%, as water-related capital investment is expected to increase in line with the increase in production facilities due to the increase in production volumes.

(W7.3) Does your organization use scenario analysis to inform its business strategy?

l	Use of scenario analysis	Comment
Row 1	Yes	

W7.3a

(W7.3a) Provide details of the scenario analysis, what water-related outcomes were identified, and how they have influenced your organization's business strategy.

	Typ e of sce nari o ana lysi s use d	Parameters, assumptions , analytical choices	Description of possible water- related outcomes	Influence on business strategy
Row	Cli mat e-	Parameters	We reviewed published literature to assess the impact of climate change on palm	If the procurement of palm oil is delayed, it will affect the business that accounts for 96% of our
1	relat ed	Future	grown in Malaysia and Indonesia, where Kao's purchase palm oil from. As a	sales, excluding the Life Care Business. To prevent this, Kao aims to procure 100% RSPO
		temperature	result, we confirmed that the increase in temperature is likely to decrease palm	(Roundtable on Sustainable Palm Oil)-certified oil for the palm oil used by the Kao Group by
		rise	yields, such as the decline in the number of areas suitable for cultivation as the	2025. RSPO certified oil does not impact to deforestation. The ratio of the certified oil purchase
		Assumption	temperature rises, and the reduction of yields by about 10% in Malavsia as the	was 34% in 2022. In addition, Kao is implementing the SMILE program to support smallholders
		Changes in	temperature rises by an additional one degree Celsius (about 2 degrees Celsius	to improve perishability and obtain RSPO certification, with the aim of expanding production of
		precipitation	above the pre-industrial level). The reason for this is that as the temperature	RSPO-certified oil. Moreover, we have joined a leading sustainable materials company Geno
		patterns due	rises, the rainfall conditions change, so that the period of time for growing palm	and Unilever as founding members of a venture company that aims to commercialize plant-
		to rising	that does not satisfy the required amount of precipitation will be longer throughout	derived raw materials as an alternative to those derived from palm oil. Kao has made an
		temperatures	the year.For example, climate change increases the risk of poor crops of palm oil,	investment in the venture as an addition to a US\$120 million (approximately 17 billion yen)
		Analytical	which is one of Kao's main ingredients, and that can lead to high prices and	investment that has already been announced by Geno and Unilever. This venture will stabilize
		choice 2 °C and 4 °C	difficulty in purchasing. If about 500,000 tons of palm oil cannot be purchased, not only will it make us unable to sell chemical products such as	and strengthen the supply chain in the \$652 billion global home and personal care market as demand for sustainably sourced palm oil increases worldwide, and will provide socially and

	surfactants, but	
scenarios	we will also become impossible to manufacture household products such as	environmentally responsible and responsibly sourced palm oil alternatives to the market. We are
RCP1.9,	detergents and cleaning agents. This is expected to impact businesses that	also committed to supplying socially and environmentally responsible and responsibly sourced
RCP2.6,	account for 80% of our sales.	palm oil substitutes to the market.
RCP8.5		
Quantitativ	э,	
qualitative	or	
mixed		
mixed		

W7.4

(W7.4) Does your company use an

internal price on water? Row 1

Does your company use an internal price on water? Yes

Please explain

At Kao plants, we use water in different quality levels according to the requirement of the facility and product. Since improving the water quality requires additional processes, we indicate water costs according to the water quality level and manage them as one of manufacturing cost items.

W7.5

(W7.5) Do you classify any of your current products and/or services as low water impact?

	Products and/or services classified as low water impact	Definition used to classify low water impact	Primary reason for not classifying any of your current products and/or services as low water impact	Please explain
Row 1	Yes	Products that use less water when used than products that have been widely used in the area.	<not applicable=""></not>	As a result of investigating the amount of water consumption in Kao products for each phase, it was found that 90% of the total is related to the product use phase. Therefore, Kao is developing products with the goal of reducing the amount of water consumption when using the products.

W8. Targets

W8.1

(W8.1) Do you have any water-related targets? Yes

W8.1a

(W8.1a) Indicate whether you have targets relating to water pollution, water withdrawals, WASH, or other water-related categories.

	Target set in this category	Please explain
Water pollution	Yes	<not applicable=""></not>
Water withdrawals	Yes	<not applicable=""></not>
Water, Sanitation, and Hygiene (WASH) services	No, but we plan to within the next two years	Kao is considering setting targets related to WASH services.
Other	No, and we do not plan to within the next two years	

W8.1b

(W8.1b) Provide details of your water-related targets and the progress made.

Target reference number Target 1

Category of target Water withdrawals

Target coverage Company-wide (direct operations only)

Quantitative metric

Other, please specify (Percentage of reduction in total water intake per unit of sales)

Year target was set 2013

Base year 2005

Base year figure 0

Target year 2030

Target year figure 45

Reporting year figure 47.8

% of target achieved relative to base year 106.22222222222222

Target status in reporting year Underway

Please explain

With 2005 as the base year, Kao's water intake (all sites) reached 16.5 million m3, with a reduction rate of 47.8% on a per-unit basis in 2022. The absolute volume decreased from 17.3 million m3 in 2021.

Target reference number Target 2

Category of target Water withdrawals

Target coverage Business activity

Quantitative metric Reduction in withdrawals per revenue

Year target was set 2018

Base year 2017

Base year figure 0

Target year 2030

Target year figure 10

Reporting year figure

3

% of target achieved relative to base year 30

Target status in reporting year Underway

Please explain

Water usage over the entire product life cycle was 2984 million m3, an increase of 23 m3 compared to 2017. We released water-saving shampoos, etc., but the cause was that sales of dish detergent, etc. increased.

Y2017(Base year) 2961m3 Sales 1489.4 billion yen Unit sales 0.198m3/100 million yen. Y2022 2984m3 Sales 1551.1 billion yen Unit sales 0.192m3/100 million yen. (1-0.192 / 0.198) * 100 = 3% **Target reference number** Target 3

Category of target Water pollution

Target coverage Business activity

Quantitative metric Reduction of hazardous substance use

Year target was set 2012

Base year 2012

Base year figure 100

Target year 2018

Target year figure 0

Reporting year figure 0

% of target achieved relative to base year 100

Target status in reporting year Achieved

Please explain

Kao aimed to complete the switch to alternative materials for the microplastic beads it had been using. Kao has set a target of 0% of applicable products by using alternative materials in all products compared to 100% of applicable products in 2012 standards. The replacement of microplastic beads has been completed, and there will be no use in 2022, so the rate is 0%.

W9. Verification

W9.1

(W9.1) Do you verify any other water information reported in your CDP disclosure (not already covered by W5.1a)?

Yes

(W9.1a) Which data points within your CDP disclosure have been verified, and which standards were used?

Discl	Data verified	Verifi	Please explain
osure		cation	
modu		stand	
le		ard	
W8	Water withdrawal (all sites), water consumption during product	ISAE	The status of water-related items
Target	use(Kao Group in Japan) , Water consumption across the entire	3000	that Kao has set as goals is
S	product lifecycle (Kao Group), COD pollution load(all production		reviewed every year by a third party.
	site), Water withdrawal amount by source, Wastewater		We disclose the results in our
	discharge by destination		Sustainability Data Book 2022.

W10. Plastics

W10.1

(W10.1) Have you mapped where in your value chain plastics are used and/or produced?

	Plastics mapping	Value chain stage	Please explain
Row 1	Yes	Direct	
		operations	
		Supply	
		chain	
		Product	
		use phase	

W10.2

(W10.2) Across your value chain, have you assessed the potential environmental and human health impacts of your use and/or production of plastics?

	Impact assessment	Value chain stage	Please explain
Row 1	Yes	Product use phase	

W10.3

(W10.3) Across your value chain, are you exposed to plastics-related risks with the potential to have a substantive financial or strategic impact on your business? If so, provide details.

	Risk	Value	Тур	Please explain
	expo	chain	e of	
	sure	stage	risk	
R	Yes	Direct	Regul	An increase in the amount of waste generated from business sites accompanying the
0		opera	atory	manufacture of new products, failure to develop technology to reduce the amount of
w		tions	Reput	plastic used and technology to use recycled plastic, etc.
1			ational	Rise in treatment costs due to an increase in the amount of waste generated that exceeds
			Techn	the amount that can be treated in society as a whole, changes in consumer preferences,
			ology	virgin
				Sanitary product containers due to rising costs of plastic and recycled plastic, and
				increased awareness of hygiene among consumers due to the corona crisis Usage
				increases, etc.
				Criticism of industries and individual companies, rising concerns from stakeholders,
				changes in consumer preferences, etc.

W10.4

(W10.4) Do you have plastics-related targets, and if so what type?

	Targets in place	Target type	Target metric	Please explain
Row	Yes	Plastic	Reduce the total weight of plastic	
1		packagin	packaging used and/or produced	
		g	Reduce the total weight of virgin	
		Microplas	content in plastic packaging	
		tics	Increase the proportion of renewable content from	
			responsibly managed sources in plastic packaging	
			Eliminate the primary use of microplastics and plastic	
			particles	

W10.5

(W10.5) Indicate whether your organization engages in the following activities.

	Activity applies	Comme nt
Production of plastic polymers	Yes	
Production of durable plastic components	No	
Production / commercialization of durable plastic goods (including mixed materials)	Yes	
Production / commercialization of plastic packaging	Yes	
Production of goods packaged in plastics	Yes	
Provision / commercialization of services or goods that use plastic packaging (e.g., retail and food services)	Yes	

W10.6

(W10.6) Provide the total weight of plastic polymers sold and

indicate the raw material content. Row 1

Total weight of plastic polymers sold during the reporting year (Metric tonnes)

Raw material content percentages available to report Please select

% virgin fossil-based content <Not Applicable>

% virgin renewable content <Not Applicable>

% post-industrial recycled content <Not Applicable>

% post-consumer recycled content <Not Applicable>

Please explain

W10.7

(W10.7) Provide the total weight of plastic durable goods/components

sold and indicate the raw material content. Row 1

Total weight of plastic durable goods/components sold during the reporting year (Metric tonnes)

Raw material content percentages available to report Please select

% virgin fossil-based content <Not Applicable>

% virgin renewable content <Not Applicable>

% post-industrial recycled content <Not Applicable>

% post-consumer recycled content <Not Applicable>

Please explain

W10.8

(W10.8) Provide the total weight of plastic packaging sold and/or used, and indicate the raw material content.

Total weight of plastic	Raw material	% virgin	%	% post-	% post-	Ple
packaging sold / used	content	fossil-	virgi	industrial	consume	ase

	during the reporting year (Metric tonnes)	percentages available to report	based content	n rene wabl e conte nt	recycled content	r recycled content	exp Iain
Plasti c pack aging sold	90800	% virgin fossil- based content	96.6	<not Applicabl e></not 	<not Applicable></not 	<not Applicable></not 	
Plasti c pack aging used		Please select	<not Applicable ></not 	<not Applicabl e></not 	<not Applicable></not 	<not Applicable></not 	

W10.8a

(W10.8a) Indicate the circularity potential of the plastic packaging you sold and/or used.

	Percentages available to report for circularity potential	% of plastic packaging that is reusable	% of plastic packaging that is technically recyclable	% of plastic packaging that is recyclable in practice at scale	Ple ase exp Iain
Plastic packagin g sold	Please select	<not applicable=""></not>	<not applicable=""></not>	<not applicable=""></not>	
Plastic packagin g used	Please select	<not applicable=""></not>	<not applicable=""></not>	<not applicable=""></not>	

W11. Sign off

W-FI

(W-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.

W11.1

(W11.1) Provide details for the person that has signed off (approved) your CDP water response.

	Job title	Corresponding job category
Row 1	President and Chief Executive Officer	Chief Executive Officer (CEO)