OLEON HOLDING - Water Security 2023

W0. Introduction

W0.1

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

Oleon is a leading producer of oleochemicals with a worldwide industrial and commercial presence. At Oleon we believe in the use of natural renewable raw materials. We are specialized in converting natural fats and oils into a wide range of oleochemical products, such as fatty acids, glycerin, esters, dimers, propylene glycol, technical oils and specialty oleochemicals. Our products, made from renewable raw materials, combine high performance with biodegradability. These oleochemical products are used in cosmetics and homecare, detergents and fabric softeners, chemicals for oil production and exploration, lubricants and hydraulic oils, food additives, agricultural products and solvents, materials and polymer additives, coatings, inks and paints, candles and paper. We work with about 1.000 employees. The production is spread over 5 production sites: We have two production sites in Belgium (Ertvelde and Oelegem), one in Germany (Emmerich), one in Compiègne (France) and one in Port Klang (Malaysia). The head office of Oleon is located in Ertvelde near Ghent (Belgium). Oleon includes 11 sales offices in Europe, USA and Asia. In Europe, Oleon is the largest oleochemical company with a market share estimated at 25%. Oleon is world leader of fatty acid esters. More than 500k ton of oleochemicals are produced and sold each year. Because of the favorable location of our plants, various transportation possibilities across land and sea are at our disposal: Oleon buys raw materials from all over the world and its end products are exported to more than 100 countries. Oleon is part of the French group Avril, with headquarters in Paris. Avril has 5 major business lines: Oilseeds Processing, Oils & Condiments, Avril Specialties, Animal Nutrition & Processing, Avril Development. The business unit Oleochemistry (= Oleon) adheres to the Avril Specialties business line. The chemistry of fats and oils and their derivatives is our key technology. Today we manufacture our high quality products in modern facilities with state of the art technology. Thanks to well-contemplated investments, mainly based on own developed technology, our plants are the most recent and the most efficient. Ambitious investment programs are running in each of our factories which put us at the top of the oleochemical scene. Sustainability is at the core of both Oleon and its mother company, Avril.

W-CH0.1a

(W-CH0.1a) Which activities in the chemical sector does your organization engage in?

Other, please specify (Oleochemicals)

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.

Belgium
France
Germany
Malaysia

W0.4

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

EUR

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 financial control is exercised

W0.6

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

Yes

W0.6a

(W0.6a) Please report the exclusions.

Exclusion	Please explain
Conroe plant (Texas, United state of America)	The plant has been purchased in December 2022 and did not enter into production in 2022. Thus no water data are available for this production site.

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
No	<Not Applicable>

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	Important	Direct use: Fresh water supply is needed for steam production and cooling purposes. Less requirements for use as process water. Indirect use: Our main raw materials are animal fats and vegetable oils. These agro-industrial materials require large quantities of water of good quality. Evaluation of water use for applications at our customers is not performed so far.
Sufficient amounts of recycled, brackish and/or produced water available for use	Vital	Neutral	Direct use: All our plants are located next to, or in the neighborhoods of surface water. For 4 out of our 5 production site, surface water (canal, river) is vital for cooling purposes and is a source for own clean water for production.

W1.2

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

	% of sites/facilities/operations	Frequency of measurement	Method of measurement	Please explain
Water withdrawals – total volumes	100%	Continuously	Measurement is done via a counter placed at the withdrawals points.	Withdrawal volume is measured continuously but reported monthly. Each year, Oleon is reporting its water withdrawals volumes per production site in the frame of the "Declaration de performance extra financières" of the Avril group (DPEF).
Water withdrawals – volumes by source	100%	Continuously	If facilities have several withdrawals sources, measurement is done via counter placed at the each withdrawals points allowing the split of volume by source. For city water and reverse osmosis, double check is done yearly with bills. Only for rain water, estimation is made using roof surface and rain volume estimation on a yearly basis, but until know the rain water is not used as source.	Withdrawal volume is measured continuously but reported monthly. Each year, Oleon is reporting its water withdrawals per production site in the frame of the "Declaration de performance extra financières" of the Avril group (DPEF). Each facility splits water withdrawals by source. Oleon withdraws water from 4 sources: municipal water, ground water, rain water and fresh surface water.
Entrained water associated with your metals & mining and/or coal sector activities - total volumes [only metals and mining and coal sectors]	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Produced water associated with your oil & gas sector activities - total volumes [only oil and gas sector]	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Water withdrawals quality	76-99	Monthly	Measurement is done by sampling at withdrawal point. Analysis is done internally in our labs. Conductivity of water is the main measurement	The water quality is measured for surface water and reverse osmosis in 3 out of 5 production sites. The 3 sites have important water consumption compared to other site (more than 2/3 of Oleon water consumption) hence the high % of water covered by water quality analysis.
Water discharges – total volumes	100%	Continuously	Measurement is done via counter placed at the discharging points	Discharge volume is measured continuously but reported monthly. Each year, Oleon is reporting its water discharges volumes per production site in the frame of the "Declaration de performance extra financières" of the Avril group (DPEF)
Water discharges – volumes by destination	100%	Continuously	Measurement is done via counter placed at the discharging destination	Discharge volume is measured continuously but reported monthly. Each year, Oleon is reporting its water discharges volumes per production site in the frame of the "Declaration de performance extra financières" of the Avril group (DPEF). Each facility splits water discharges by destination. Oleon discharges water to 3 different destination: fresh surface water, third party and ground water.
Water discharges – volumes by treatment method	100%	Continuously	Measurement is done via counter placed at the treatment method location	Discharge volume is measured continuously but reported monthly. All facilities split their water discharges by treatment method.
Water discharge quality – by standard effluent parameters	100%	Daily	Measurement is done by sampling just before discharging point. The following parameters are analyzed: COD, total nitrogen and total phosphor.	Analysis is done at internal lab daily and by external lab every 2 months minimum. All facilities must report the following parameters regarding the treated water discharges: COD, total nitrogen and total phosphor. Total number of days out of spec is reported monthly.
Water discharge quality – emissions to water (nitrates, phosphates, pesticides, and/or other priority substances)	100%	Yearly	Measurement is done by sampling just before discharging point. Pesticides, nitrates, phosphate and other substances are measured (metal, inorganic polluant, detergent, mineral oils...)	Analysis is done by external lab every year and reported to the government if values are above a certain threshold (substance specific). There is no pesticide in our waste water. Nitrate and phosphate can be present.
Water discharge quality – temperature	100%	Continuously	At the discharging points the temperature of water is measured with a thermometer.	All facilities measure the temperature of their discharged water.
Water consumption – total volume	100%	Yearly	Water consumption is measured by subtracting withdrawals volumes to discharged volumes.	All facilities report the water consumption. Consumption come mainly from evaporation in cooling tower and loss of steam in the installations.
Water recycled/reused	Not monitored	<Not Applicable>	<Not Applicable>	Water is not reused or recycled in any of our plant. Re-use of water might be implemented in the future.
The provision of fully-functioning, safely managed WASH services to all workers	100%	Unknown	No measurement is done. Our plant operate in countries where WASH services is provided to population/workers as standard. Hence no measurement is performed. We assume measurement is done by water provider.	All facilities provide full-functioning WASH services for all workers.

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 (megaliters/year)	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Five-year forecast	Primary reason for forecast	Please explain
Total withdrawals	5603.49	Lower	Increase/decrease in business activity	Lower	Increase/decrease in efficiency	Oleon produced a bit less in volume in 2022 than in 2021 (-6%). Oleon is performing audit to define water reduction target for 2026. Results of first audits finalized in 2022 (2 out of 5) are showing possible improvements in the reuse of water.
Total discharges	5183.03	Lower	Increase/decrease in business activity	Lower	Increase/decrease in efficiency	Oleon produced a bit less in volume in 2022 than in 2021 (-6%). Oleon is performing audit to define water reduction target for 2026. Results of first audits finalized in 2022 (2 out of 5) are showing possible improvement in the reuse of water.
Total consumption	420.46	Lower	Increase/decrease in business activity	About the same	Increase/decrease in efficiency	Oleon produced a bit less in volume in 2022 than in 2021 (-6%). Consumption comes mainly from evaporation in cooling tower and loss of steam in the installations. If continuous improvement can reduce the loss of steam, evaporation in the cooling tower will always occur. The increase of production (3% per year) will also increase the water consumption.

W1.2d

(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.

	Withdrawals are from areas with water stress	% withdrawn from areas with water stress	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Five-year forecast	Primary reason for forecast	Identification tool	Please explain
Row 1	No	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	WWF Water Risk Filter	According to the WWF Water Risk Filter, Oleon withdraws water from countries with the following baseline water scarcity score: - Malaysia: 1.5 (very low) - France: 2.5 (low) - Germany: 2.31 (low) - Belgium: 2.73 (medium). None of the countries are classified as high risk.

W1.2h

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

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Please explain
Fresh surface water, including rainwater, water from wetlands, rivers, and lakes	Relevant	4168.45	Lower	Increase/decrease in business activity	Oleon produced a bit less in volume in 2022 than in 2021 (-6%). When producing less, our plants are using less water because we need less steam and less water to cool.
Brackish surface water/Seawater	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	Oleon is not using brackish surface water and seawater
Groundwater – renewable	Relevant	342.39	About the same	Other, please specify (No specific reason)	The production at the two sites using groundwater remained the same compared to previous reporting year.
Groundwater – non-renewable	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	We don't use non-renewable groundwater
Produced/Entrained water	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	Oleon is not producing water.
Third party sources	Relevant	1092.64	Higher	Other, please specify (Shift of supply from Surface water to thrid party sources)	In one of our factories, the main source of water is surface water from a canal near the sea. During summer 2022, the salinity of water increased and the reverse osmosis system treating this water was not performant enough to achieve expected water quality. As consequence, the supply has been shifted to city water for a certain period of time. The usage of city water for this factory increased by 90%.

W1.2i

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

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Please explain
Fresh surface water	Relevant	5005.73	Lower	Increase/decrease in business activity	Oleon produced a bit less in volume in 2022 than in 2021 (-6%). When producing less, our plants are using less water because we need less steam and less water to cool.
Brackish surface water/seawater	Please select	<Not Applicable>	<Not Applicable>	<Not Applicable>	No futher comment
Groundwater	Relevant	52.96	Lower	Increase/decrease in business activity	Oleon produced a bit less in volume in 2022 than in 2021 (-6%). When producing less, our plants are using less water because we need less steam and less water to cool.
Third-party destinations	Relevant	124.34	Lower	Increase/decrease in business activity	Water discharge to third party destination is mainly water containing chemicals toxic for our waster water treatment bacteria. This water cannot be sent to our water treatment plant. The amount is directly linked to production volume. As production volume in 2022 was lower than 2021, the volume of discharged water to third party in 2022 is lower than in 2021.

W1.2j

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

	Relevance of treatment level to discharge	Volume (megaliters/year)	Comparison of treated volume with previous reporting year	Primary reason for comparison with previous reporting year	% of your sites/facilities/operations this volume applies to	Please explain
Tertiary treatment	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	Oleon's waste water treatment plants don't do a tertiary treatment. Oleon adds nutrient to its waste water as these are necessary for the growth of bacteria that eat the waste.
Secondary treatment	Relevant	1317.12	Higher	Change in accounting methodology	100%	In 2021, only 3 out of 5 production sites were considered as operating their waste water treatment plant. We now consider that all our production sites have on-site wastewater treatment plant. All our on-site treated waste water undergo primary (physical and chemical) and secondary treatment (biological). In 2022 we produced a bit less in volume than in 2021 (-6%)
Primary treatment only	Relevant	0	About the same	Other, please specify (About the same)	100%	In 2021, only 3 out of 5 production sites were considered as operating their waste water treatment plant. We now consider that all our production sites have on-site wastewater treatment plant. All our on-site treated waste water undergo primary and secondary treatment. The volume is disclosed in the secondary treatment section.
Discharge to the natural environment without treatment	Relevant	3715.07	Lower	Increase/decrease in business activity	100%	All our plants discharge a volume of water without treatment. This water is cooling water used to cool down reactors. This water is never in contact with chemicals, so not contaminated.
Discharge to a third party without treatment	Relevant	124.34	Higher	Change in accounting methodology	31-40	2 of our 5 production sites send a small percentage of their waste water to a third party for treatment. The volume sent to a third party without treatment correspond to waste water that cannot be treated in the on-site waste water treatment plant due to the presence of chemicals toxic for the bacteria of our waste water treatment plant.
Other	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	No further comment

W1.2k

(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	5.54	Nitrates Phosphates	<Not Applicable>	The emissions to water are measured daily internally and monthly by an external laboratory. Pesticides, nitrates, phosphate and other substances are measured (metal, inorganic pollutant, detergent, mineral oils...). A report is sent to the government if values are above a certain level. Pesticides are not present in our water. Nitrate and phosphate can be present. The value displayed is a difference between withdrawals analysis and discharge analysis.

W1.3

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

	Revenue	Total water withdrawal volume (megaliters)	Total water withdrawal efficiency	Anticipated forward trend
Row 1	1179000000	5603.49	210404.587141228	Oleon is conducting water audits in all their plants in 2022 and 2023. The goal of these water audits is to improve the monitoring of water usage and reduce the use of water at plant level mainly via re-use projects. As consequence the water withdrawal will decrease. Oleon expects is efficiency to improve in the coming years.

W-CH1.3

(W-CH1.3) Do you calculate water intensity for your activities in the chemical sector?

No, but we intend to do so within the next two years

W1.4

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

	Products contain hazardous substances	Comment
Row 1	No	None of our raw materials and final products are classified as hazardous.

W1.5

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

	Engagement	Primary reason for no engagement	Please explain
Suppliers	No	We are planning to do so within the next two years	Oleon monitors the sustainability level of its suppliers via the rating platform EcoVadis. On this platform, suppliers fill in a yearly questionnaire where they provide information regarding the environment, working conditions, ethics and their supply chain. In the environment section, suppliers need to disclose their GHG emissions, water consumption, waste, etc. As of 2021, EcoVadis has a dashboard per supplier where we can see all this data. Topics such as water consumption can now be monitored for all our EcoVadis assessed suppliers, leading to potential corrective actions for those suppliers with a high or worsening water consumption.
Other value chain partners (e.g., customers)	Yes	<Not Applicable>	<Not Applicable>

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
Run an engagement campaign to educate stakeholders about the impacts on water that (using) your products, goods, and/or services entail

Rationale for your engagement
Starting from renewable raw materials, Oleon is providing safe and sustainable products to all its customers. In order to guide customer sustainability choices, Oleon decided to start calculating environmental impacts of its product via life cycle analysis method (LCA). The method is allowing us to have a global vision of our product's impact including their impact on water availability and ecotoxicity of water. The LCA program target is to have assessed all commercialized products by the end of 2023 (650 different products)

Our engagement: Being able to provide environmental impact (including carbon footprint but also other impact like water use impact or ecotoxicity of water) for all our sold products by the end of 2023, to guide our customers sustainability choices.

At the end of 2022, 50% of the portfolio was assessed by an LCA.

This engagement applies to 100% of our customers as the data are disclosed without signature of NDA or selection of customer. Environmental impact data are provided to customer on demand. The data provided with a methodology description allowing our customers to understand the value calculation and to compare our products environmental impacts with competitor's products.

Next to communication of data, we plan to organize in 2023 webinars for customers to explain the importance of environmental impact calculation and the methodology used at Oleon.

Impact of the engagement and measures of success
Impact of engagement:
To encourage our customers to look at all environmental impacts, we informed them via webinar and B2B meeting that more than product carbon footprint value was available as environmental data for our products. Thanks to this effort, we noticed a growing interest and we received requests for different environmental impact including water usage and ecotoxicity (provided by the European method EF3.0 (https://green-business.ec.europa.eu/environmental-footprint-methods_en).

Measure of success:
Since its start in 2020, the LCA program measures the level of customers engagement by keeping track of customer requests for environmental impact data. Difference was made between requests asking only the carbon footprint of a product and the ones asking a full list of environmental impacts including water usage and ecotoxicity of water.

In 2020, 100% of the request were for carbon footprints data sheets. In 2021, 5% of the requests were for a full list of environmental impacts (including the water related ones). In 2022, 18% of requests were for a full list of environmental impacts (including the water related ones). The increase of % of request requiring not only product carbon footprint, but also other impacts is a clear proof of customer engagement.

W2. Business impacts

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>	No further comment

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?

	Identification and classification of potential water pollutants	How potential water pollutants are identified and classified	Please explain
Row 1	Yes, we identify and classify our potential water pollutants	Oleon is ISO 14001 certified. One of the requirements to achieve this certificate is to execute environmental risk analysis on all related environmental domains. All potential water pollutant scenarios are identified and evaluated. Following legal obligation, an external lab is controlling several parameters on our discharge water every month. Additionally, an ecotoxicity test (on fish and microorganism) is performed every 3 months. In Europe, our water installations are inspected up to 6 times per year by government or by local water authorities.	<Not Applicable>

W3.1a

(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
Nitrates

Description of water pollutant and potential impacts
Nitrates can be present in our discharged water. If presence is too high quantity, nitrates can make the water unsuitable as drinking water and stimulate the growth of algae. If the growth is too severe, the oxygen content in the water can decrease and lead to a disturbance of natural ecosystem.

Value chain stage
Direct operations

Actions and procedures to minimize adverse impacts
Discharge treatment using sector-specific processes to ensure compliance with regulatory requirements

Please explain
Oleon is treating all its waste water in wastewater treatment plants performing a primary and secondary treatment. Moreover, Oleon is ISO 14001 certified and compliant with regulation regarding water discharge. Nitrates content in our discharged water is measured daily internally and monthly externally. The measurements externally done are compiled in a document that can be checked by external parties. If level of nitrates is above a certain threshold Oleon, will report it to the government.

Water pollutant category
Phosphates

Description of water pollutant and potential impacts
Phosphate can be present in our discharged water. If present in too high quantity, phosphates stimulate the growth of algae. If the growth is too severe, the oxygen content in the water can decrease and lead to a disturbance of natural ecosystem (kill fishes and harm other aquatic life).

Value chain stage
Direct operations

Actions and procedures to minimize adverse impacts
Discharge treatment using sector-specific processes to ensure compliance with regulatory requirements

Please explain
Oleon is treating all its waste water in wastewater treatment plants performing a primary and secondary treatment. Moreover, Oleon is ISO 14001 certified and compliant with regulation regarding water discharge. Phosphates content in our discharged water is measured daily internally and monthly externally. The measurements externally done are compiled in a document that can be checked by external parties. If level of phosphates is above a certain threshold Oleon, will report it to the government.

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 in an environmental risk assessment

Frequency of assessment
Annually

How far into the future are risks considered?
Up to 1 year

Type of tools and methods used
Enterprise risk management

Tools and methods used
Other, please specify (Tool developed by Oleon)

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
Water regulatory frameworks

Stakeholders considered
Local communities
Regulators
Water utilities at a local level

Comment
In 2020, Oleon requested an environmental effect report (MER) which was published in January 2021. Water topics that were included in this report were potential contamination of groundwater basins and canal water contamination due to Oleon's waste water. The report showed that there was no sign of Oleon influencing the groundwater basins or contaminating the canal water. Other topics included in the environmental effect report were soil, air, noise and scent pollution.

Value chain stage
Supply chain

Coverage
Full

Risk assessment procedure
Water risks are assessed as part of other company-wide risk assessment system

Frequency of assessment
More than once a year

How far into the future are risks considered?
Up to 1 year

Type of tools and methods used
Tools on the market

Tools and methods used
Other, please specify (SimaPro9.0 a software to calculate life cycle analysis of products)

Contextual issues considered
Implications of water on your key commodities/raw materials

Stakeholders considered
Customers
Regulators
Suppliers

Comment
Oleon is assessing all its finished product by a life cycle assessment. Water use impact, ecotoxicity of freshwater and eutrophication of freshwater are some of the environmental impacts considered in the assessment. Our LCA calculations are from cradle to Oleon's gate, taking into account raw material, transport, process inputs impacts (including water usage and emission to water at each stage). The global usage of water and emissions to water along the value chain are then assessed. Internally but also with customer, we are using these data to compare water related impacts of different products and take this aspect into consideration in business choices (similarly to price/performance/CO2 emission).
Not all finished products have been analyzed yet. At the end of 2022, 50% of the portfolio was assessed by an LCA. Oleon strives to have an LCA for all its products by the end of 2023.
For the moment, the water related impacts are rather of low interest for customers, but the interest is growing and Oleon will be then ready when it will become a priority and have the data available to guide customer choices.

Value chain stage
Direct operations

Coverage
Full

Risk assessment procedure
Water risks are assessed in an environmental risk assessment

Frequency of assessment
Annually

How far into the future are risks considered?
1 to 3 years

Type of tools and methods used
Tools on the market

Tools and methods used
WRI Aqueduct

Contextual issues considered
Water availability at a basin/catchment level

Stakeholders considered
Local communities
Regulators
Water utilities at a local level

Comment
Oleon uses the WRI Aqueduct to calculate the water stress at our production sites. 4 out of 5 Oleon's production site (all factories in Europe) are located in a zone where the stress level is medium. This showcased the need for an extensive water audit.
In the course of the years 2021-2022-2023, a water audit will be conducted by consultancy firms at all production sites within Oleon. The goals are to improve water monitoring and to define more detailed improvements such as closed-loop water systems, reduction in water uptake, etc. Outcomes of first water audits (2 out of 5) have become available in August 2022.
As first output, a monitoring tool has been created to follow monthly the water consumption of each site audited. The document will be used to first define water usage baseline. Once defined, it will be possible to detect faster abnormal usage and put in place solutions, improving our water usage efficiency.
As second input, scenario of re-use has been isolated and will be further explore by an internal dedicated team.

W3.3b

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

	Rationale for approach to risk assessment	Explanation of contextual issues considered	Explanation of stakeholders considered	Decision-making process for risk response
Row 1	For risk in our direct operation: Oleon approach's water related risk assessment the same way as all our risks. Following ISO 40001, Oleon has a risk reporting system to identify risk in a preventive way. When identified, the risk is assessed by manager concerned. The manager will classify the risk depending on the severity. For risk across our supply chain: LCA is used. The identification will be done product by product looking at water related impact. The assessment will be done via LCA multi-impact method like EF3.0.	For direct operation: Availability of water and water quality are key for Oleon's activity. Without water, production plants stop running. It is thus key to have procedures in place to identify and assess risk related to these topics. For supply chain: As water availability becomes a societal topic, it is important to have a global picture on its usage and impact. This information can be used internally to improve our method but also to sensitize suppliers and customers.	For direct operations: all actors involved in local water usage can be included depending on the severity: external (local communities & regulator) and internal (manager, local and corporate HSE manager, up to Excom) For supply chain: all value chain actors are considered, raw material suppliers as well as customers because they all can have an impact on water topic (water usage for raw materials production, customer choice for low water product out of a portfolio of solutions...)	For direct operations: Depending on the severity, risk response will be done at different levels from manager up to production plant level and Excom level for very severe risk. At all levels of response, local communities and regulators can be included. For supply chains: Decision can either be taken at Oleon level, by changing from suppliers or process to decrease risk related to water, or at customer level with its purchasing choice guided by Oleon LCA data.

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?
No

W4.1a

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

Oleon considers two different types of substantive impact:

- A substantive financial impact influencing Oleon's financial results. The impact is quantified in €. Financial impact is considered as substantive from the threshold of 200k€ EBITDA (around 0.3% of Oleon EBITDA).

- A substantive operational impact disturbing production planning. The impact is quantified in days of downtime. Operational impact is considered as substantive from 5 days of downtime of a production Unit.

Definition: A production unit is a unit that is crucial for the production of the end products of a plant – when it fails there is an impact of the output of the plant as other units will no longer get feed or end products will no longer be produced. Globally, Oleon has 35 production units.

In both categories, impact can be classified in 3 categories: low/medium/high.

Financial impact gradation:

- Low: €200k - €400k (EBITDA).

- Medium: €400k - €1M (EBITDA).

- High: >€1M (EBITDA).

Operational impact gradation:

- Low: 1 production unit is down between 5 and 10 consecutive days.

- Medium: 1 production unit is down between 10 and 30 consecutive days OR 1 full plant is down less than 3 consecutive days.

- High: 1 production unit is down more than 30 consecutive days OR 1 full plant is down more than 3 consecutive days.

Precisions:

Both impacts can be seen as positive or negative:

- For financial impact, the positive impact is extra incomes or savings, and the negative impact is costs /or a loss of incomes.

- For operational impact: the positive impact would be a shutdown avoided while a negative impact would be a shutdown.

Substantive impacts described and classified above represent the starting point of an answer to assess the impact. Mainly chance of occurence and gradation will condition the answer. The answer can be multiple, from not acting and accepting the impact (if impact is low and negative, and chance of occurence is very low) to direct and intensive action to avoid future impact (if impact is high and chance of occurence is rather high).

W4.2b

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

	Primary reason	Please explain
Row 1	Evaluation in progress	Oleon is currently performing water audits at all its production sites. These water audits enable us to improve our water consumption monitoring and set a water use reduction target for the future. 2 out of 5 water audits have been finalized in 2022 and 3 out of 5 will be finalized in 2023. Company targets will be defined at the end of 2023.

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 reason	Please explain
Row 1	Other, please specify (Water is not a financial risk.)	We manufacture oils, fats and esters. Water is not a financial risk for us. Oleon's spend on water is relatively small.

W4.3

(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
We built a reverse osmosis installation in our Ertvelde plant (Belgium). This installation reduces city water consumption and increases our on-site water production. Thus, we will be able to depend less on water providers. Additionally, our Ertvelde plant received a lower set cost for water use.

Estimated timeframe for realization
More than 6 years

Magnitude of potential financial impact
Low

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

Potential financial impact figure (currency)
1600000

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

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

Explanation of financial impact
Oleon was able to receive a lower price for the cost of water due to our ultrafiltration and reverse osmosis installation. Due to the lower price, we were able to save €160,000 each year. As this is lower than 200k€ per year. The impact is considered as low. The contract with lower cost is valid for 10 years.

Type of opportunity
Resilience

Primary water-related opportunity
Increased resilience to impacts of climate change

Company-specific description & strategy to realize opportunity
All European production sites are located next to a surface water source (river of canal). This source is used as main water supply for cooling and steam generation. Pumping surface water is linked to a cost and also to restriction in case of drought and water access restrictions decided by regulation bodies. In order to anticipate this risk and reduce cost linked to water withdrawals, Oleon started a series of water audits in all production sites.
For the moment, the audit has been finalized in 2 out of 5 plants. Considering the best scenarios in the two plants, the water withdrawal reduction potential is already evaluated at 35% (re-use water volume/Oleon's total withdrawals). We can expect this number to go up after the finalization of all audits. Based on first financial estimation (high level), the water withdrawal reduction would be made at similar or lower cost (OPEX+CAPEX) compared to actual situation (OPEX).

Example of action:
In 2022, the audit has been finalized at Oelegem factory. As audit results, some re-use scenarios have been presented to the plant management. One of the scenarios has been selected to be further explored.
Re-use scenario:
One of the water streams identified during the water audit is qualified as clean water. This stream is composed by cooling water (river water filtered with sand filters) used to cool reactor and is never in contact with chemicals, condensed water from steam or rainwater. If collected and reinjected in the system for all usage (cooling & steam generation) the total volume of clean water stream could cover 89% of river water needed by the plant, reducing the river withdrawal costs (lower water OPEX).
In order to implement this re-use scenario, a buffer tank should be placed before the discharging point of clean water stream and new pipes should be installed to re-inject the water in the water network (CAPEX is needed).
CAPEX and OPEX together, the first economic scenario concluded to a reduction of 50% annual water cost for the factory.
To go further, the factory has set-up a team to launch an in-depth study in 2023 and prepare budget for implementation in 2024 (if financially acceptable).
Depending on the project cost, the investment will be decided at plant level (cost lower than 20k€), at Oleon's level (cost lower than 1M€), or at Avril's level via investment procedure (INVESCOM) (cost higher than 1M€)

Estimated timeframe for realization
4 to 6 years

Magnitude of potential financial impact
Low

Are you able to provide a potential financial impact figure?
Yes, an estimated range

Potential financial impact figure (currency)
<Not Applicable>

Potential financial impact figure – minimum (currency)
100000

Potential financial impact figure – maximum (currency)
500000

Explanation of financial impact
The global financial impact of our all actions on water re-use across the different sites is not known at the moment.

The minimum financial impact disclosed concerns the savings provided by the Oelegem re-use project (audit finalized).
The maximum financial impact disclosed concerns the savings provided by the Oelegem re-use project extended to the 5 other sites.

The minimum financial impact is the sum of the estimated depreciated CAPEX required to implement the re-use scenario (installation of a buffer tank to collect clean water streams and installation of pipes to re-inject water into the water network) and revised OPEX (reduction of river water withdrawal yearly costs) compared to actual situation.

At the moment the financial impact is rather low but as water usage is similar in all other Oleon's production sites, the solution developed at Oelegem might be reproduced at other production sites. Audits that are currently ongoing and finalized in 2023 will highlight the possibility to duplicated Oelegem solutions.

Based on first financial estimation (high level) done in the 2 sites already audited, the water withdrawal reduction would be made at similar or lower cost (OPEX+CAPEX) compared to actual situation (OPEX). So, we expect the financial impact to increase in our favor.

If in a plant, the cost of re-use scenario would be significantly higher than actual situation cost. The scenario would not be explored.

W6. Governance

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-wide	Description of the scope (including value chain stages) covered by the policy Commitment to align with international frameworks, standards, and widely-recognized water initiatives Commitment to prevent, minimize, and control pollution Commitment to reduce or phase-out hazardous substances Commitments beyond regulatory compliance Reference to company water-related targets Acknowledgement of the human right to water and sanitation	We consider our water policy included in our HSE policy (see attachment), under the following statements: • Control the water consumption • Maintain effectiveness of wastewater treatment plants. Actors concerned by the policy: leaders of Business Lines, Business Units and sites. Certification included in our water policy: ISO 14001 To complete our water policy, we can refer to our supplier code of conduct (in attachment) where we engage our suppliers to respect human rights and to integrate environmental criteria in their purchasing criteria including water aspects. Explanation of statements: • Maintain effectiveness of wastewater treatment plants: Our adequate wastewater treatment plants became an integrated part of our production processes and are continuously followed-up. To reflect the efficiency of our wastewater treatment, we count the number of days that we exceed our wastewater emission standards (the percentage of days that the wastewater quality exceeded the emission limits is presented on a 12-month average). Our internal target is maximum 2.5%. Since existing wastewater treatment controls are limited, studies to extend our wastewater treatment capacities at the concerned production plants have been done. • Control the water consumption: Targets have been set-up per production plant based on critical water source intake, water use efficiency and the impact of discharged water on our environment together with an exchange of best practices between the plants. If water policy is not structured in a dedicated document, it will be structured and consolidated after the end of water audits. SCOC Avril group_OLEON_2019_final.pdf HSE_Policy_-_Health,_Safety_and_Environmental_Policy.pdf

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.

Position of individual or committee	Responsibilities for water-related issues
Chief Operating Officer (COO)	Direct responsibility towards water security is the Industrial Director (COO). The Industrial Director is a member of the Executive Committee. The executive committee is involved in the CAPEX decision taken at Oleon's level (including water related investments)
Chief Executive Officer (CEO)	The role of the CEO is to define the global strategy of the company including environmental challenge. As water is part of the important environmental topics for Oleon (together with Climate and Forest), it is a subject under its supervision. The CEO is a member of the Executive Committee. The executive committee is involved in the CAPEX decision taken at Oleon's level (including water related investments)

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 1	Scheduled - some meetings	Monitoring implementation and performance Overseeing acquisitions, mergers, and divestitures Overseeing major capital expenditures Reviewing and guiding annual budgets Reviewing and guiding business plans Reviewing and guiding corporate responsibility strategy Reviewing and guiding major plans of action Reviewing and guiding strategy Setting performance objectives	Water availability is a must for our production site. As consequence, the availability of water is always overseen when acquisitions are analyzed. Water quality is an indicator of our HSE performance. Specific water issues are reported when something important arises. Water consumption and use is reported annually in the frame of DPEF of Avril group (Déclaration de Performance Extra-Financière). Water audits performed in all our sites are part of Oleon Corporate Social Responsibility roadmap and included in personal performance objectives of stakeholders, including Excom members. The water audit project is sponsored by our industrial director.

W6.2d

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

	Board member(s) have competence on water-related issues	Criteria used to assess competence of board member(s) on water-related issues	Primary reason for no board-level competence 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
Row 1	Yes	The Industrial Director (board member) and Corporate HSE Manager are closely following up any water related issues. More specifically: Corporate HSE Manager is following monthly the waste water quality of all plants and reporting to the Industrial Director. The industrial Director is the sponsor of the water audit project aiming the development of re-use scenario in all our plant.	<Not Applicable>	<Not Applicable>

W6.3

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

Name of the position(s) and/or committee(s)

Environmental, health, and safety manager

Water-related responsibilities of this position

Assessing future trends in water demand
Assessing water-related risks and opportunities
Managing water-related risks and opportunities
Monitoring progress against water-related corporate targets

Frequency of reporting to the board on water-related issues

More frequently than quarterly

Please explain

Corporate targets on water are related to the wastewater quality. The quality of wastewater discharged is reported every month together with all other HSE targets.

W6.4

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

	Provide incentives for management of water-related issues	Comment
Row 1	Yes	The Industrial Director is responsible for achieving the set targets and handling any issues. The realization of the indicator targets results in an annual bonus and/or salary increase.

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 incentive	Performance indicator	Contribution of incentives to the achievement of your organization's water commitments	Please explain
Monetary reward	Corporate executive team Chief Executive Officer (CEO) Chief Operating Officer (COO)	Improvements in wastewater quality – direct operations	During the annual performance appraisal, the employee receives a score from 1 to 5, with 5 being the best. Depending on the score, the employee will receive a bonus and/or salary increase, determined by the head of the department. In order to receive a high score, the employee needs to fulfil his/her target that were set for that year. Water related topics is part of Industrial Director's targets	The main water related KPI is related to waste water quality. Waste water quality should be within the standard set by the country of operation with less than 2.5% of days with out of spec waste water (for 12 months rolling) At the end of 2023, water audits in all plants will be finalized and reduction target will be set at company level. As of 2024, reduction of water withdrawals and reduction in consumption volumes will be added as indicators with 2026 as target year. These indicators will be linked to KPI also included in Industrial director's targets.
Non-monetary reward	No one is entitled to these incentives	<Not Applicable>	<Not Applicable>	No further comment

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?

No

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)

2022_AvrilIntegratedAnnualReport.pdf

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	21-30	Wastewater quality is part of actual target and will stay in Oleon's HSE target on the long term (at least for the next 20 years). Availability of water at our production site is key to maintain production on-going. With climate change, water access could become a crucial point in the future. To integrate the availability of water in our long-term strategy business plan, Oleon performed two actions: -Oleon (via Avril) requested a physical climate impact study to AXA climate analyzing risks related to climate change including water related issues (water scarcity/flood...). The time horizons studied are 2030 (short term) and 2050 (long term). Results are now integrated in our operational and business strategy. -To reduce water consumption, Oleon is performing audits will multiple objectives: improved water management, water use reduction and water re-use. Once all audits are finalized, targets will be created with 2026 as first target year. This is the first step within a broader vision going until 2050 (linked with physical climate risks prediction from AXA study)
Strategy for achieving long-term objectives	Yes, water-related issues are integrated	5-10	Strategy for achieving long term objectives is defined within a shorter term (5-10y) than the long-term objectives (21-30y). In our purpose "Serving the earth" the water related issues are included with the objective of reducing our withdrawals within 2030. To transform this purpose into actions a dedicated project on water has been created with adapted manpower and budget. In this project, Oleon is working at production site level. In plants where the audit has been finalized in 2022 (2 out of 5), the follow-up actions (re-use scenario in depth analysis, budget estimation) are included in the plants/personal objectives for 2023, and a team or a person is dedicated to work on these actions. Similar strategy will be implemented in other sites when audit will be finalized, and target will be set at group level at the end of 2023. Actions are also happening at corporate level with a climate study performed by AXA for all our production site.
Financial planning	Yes, water-related issues are integrated	5-10	Financial planning for achieving long term objectives is defined within a shorter term (5-10y) than the long-term objectives (21-30y). In the frame of water audit, each local team working on re-use scenario has to define their budget. Depending on the project cost, the investment will be decided at plant level (cost lower than 20k€), at Oleon's level (cost lower than 1M€), or at Avril's level via the investment procedure (INVESCOM) (cost higher than 1M€).

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)
411

Anticipated forward trend for CAPEX (+/- % change)
-66

Water-related OPEX (+/- % change)
17

Anticipated forward trend for OPEX (+/- % change)
12

Please explain
CAPEX in 2022 has been higher than in 2021, mainly because of the construction of 4 wells to supply cooling water to the production site in Emmerich. The construction will be finalized in 2023, as consequence 2023 CAPEX is still higher than 2021 but lower than 2022.
In 2022, OPEX increased compared with 2021 because of the global inflation and the need to switch from river water to city water in Ertvelde. For next year, OPEX will still increase because of inflation.

W7.3

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

	Use of scenario analysis	Comment
Row 1	No, but we anticipate doing so within the next two years	Oleon is currently running water audits at all our production sites. This water audit will enable us to set a water use reduction target for the future. 2 out of 5 water audits have been finalized in 2022. The 3 others will be finalized in 2023 and water target will be defined at the end of 2023. The water audit objectives are: - Description and evaluation of current situation. - Rainwater study. - Clear and practical water balance. - Scenarios for water saving and use of alternative water sources. For each scenario, the following is delivered: 1. Description of necessary technology and equipment. 2. Initial technical and economic technology evaluation. 3. Legal evaluation and impact analysis. - Multi-year plan for sustainable water management. The targets defined at the end of 2023 will allow us to define what will be Oleon water consumption in the future and compare this consumption with future water availability (water availability prediction in +4°C and +1,5°C scenario).

W7.4

(W7.4) Does your company use an internal price on water?

Row 1

Does your company use an internal price on water?
No, and we do not anticipate doing so within the next two years

Please explain
We have an internal carbon price.

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	- Lower water use at raw material level (supply chain). - Lower water use at production site level (direct operations).	<Not Applicable>	Our products do not have water as a raw material. Our total balance on consumption is rather low (difference between withdrawals volumes and discharge volumes). Moreover, Oleon uses LCA's (life-cycle assessments) to calculate the water usage impact of our products. We look at both the water impact at raw material level as well as the water usage within our production site. By making the water usage data available for our customers, we can offer them the possibility to choose more environmentally friendly products regarding water use.

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>
Water withdrawals	No, but we plan to within the next two years	When all water audits are finalized at the end of 2023, targets related to water withdrawal will be set. The target will be either at plant level or at company level depending on audit results.
Water, Sanitation, and Hygiene (WASH) services	No, and we do not plan to within the next two years	Oleon's plants are located in countries where access to WASH service is standard. As consequence, it is considered that targets on this topic are not required.
Other	No, and we do not plan to within the next two years	No further comment

W8.1b

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

Target reference number
Target 1

Category of target
Water pollution

Target coverage
Company-wide (direct operations only)

Quantitative metric
Other, please specify (% of days with wastewater out of spec reportable to authorities)

Year target was set
2013

Base year
2013

Base year figure
2.7

Target year
2023

Target year figure
2.5

Reporting year figure
0.9

% of target achieved relative to base year
899.999999999999

Target status in reporting year
Underway

Please explain
Our adequate wastewater treatment plants became an integrated part of our production processes and are continuously followed-up. To reflect the efficiency of our wastewater treatment, we count the number of days that we exceed our wastewater emission standards reportable to authorities (the percentage of days that the wastewater quality exceeded the emission limits is presented on a 12-month average). Our internal target is maximum 2.5%. The value displayed in the base year figure is the average for 2013. The value displayed in the reporting year figure is the average for 2022.
Since existing wastewater treatment controls are limited, studies to extend our wastewater treatment capacities at the concerned production plants have been done. Moreover, Oleon is setting internal alert thresholds lower than regulatory thresholds to be able to act before regulatory thresholds are reached.

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
2022 Water consumption attestation - Oleon NV.pdf

W9.1a

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

Disclosure module	Data verified	Verification standard	Please explain
W3 Procedures	Oleon is ISO 14001 certified. One of the requirements to achieve this certificate is to execute environmental risk analysis on all related environmental domains. All potential water pollutant scenarios are identified and evaluated. Measures are in place to reduce these potential pollutants towards an acceptable level.	Other, please specify (ISO 14001)	Our plants have been audited by 3rd party auditors in order to achieve the ISO 14001 certification.
W1 Current state	Oleon's water consumption was audited by Ernst & Young for the DPEF audit.	Other, please specify (DPEF)	Oleon's shareholder the Avril Group is based in France. Due to French regulation, the Avril Group (and Oleon) need to undergo an annual audit on our extra-financial reporting (DPEF). During the audit, the auditors verified the water consumption for 2022. Volume reported in DPEF differs a bit from value reported at the beginning of the questionnaire. The difference is due to the rainwater collected in our plant which is not taken into account in the DPEF.

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	Oleon is not producing plastic materials Our usage of plastic is mainly linked to packaging of raw materials and finished products. Most of our materials are purchased in bulk. Packaged raw materials are reaction auxiliaries or filtering agents representing a small part of the production volume. For the moment the mapping of plastic packaging in our purchasing is not done but will be part of a waste audit performed in all our production sites in 2024-2025. For finished products, the amount of plastic packaging is known. We used, in 2022, 2400T of plastic to package our finished products (PE, PP and PVC). 63% of it was recycled plastics. It represents 27% in mass of all our packaging. For finished products plastic is mainly present in our IBCs and small jerrycans used to delivery small quantities to customers.

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	Direct operations	Our usage of plastic is mainly link to packaging of raw materials and finished products. Our mapping of plastic usage is not complete. It has only been done for our finished products and will be done for purchased materials in 2024-2025 in the frame of a waste audit at all our manufacturing sites. For finished products, plastic packaging environmental impact is yearly evaluated in the frame of our GHG protocol calculations. In 2022, the emission related to plastic packaging was 1.7kT CO2eq, which represent 16% of Oleon's emission's related to packaging and around 0.1% of Oleon's total CO2 emissions.

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 exposure	Value chain stage	Type of risk	Please explain
Row 1	Yes	Product use phase	Regulatory	Oleon is providing ingredients for the single use plastic industry, mainly for polypropylene market. The increase of regulation against single use plastic can represent a financial and strategic threat for our business. However, Oleon is shifting its focus to recycled plastics and bioplastics markets.

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 1	Yes	Plastic packaging	Reduce the total weight of plastic packaging used and/or produced Reduce the total weight of virgin content in plastic packaging Increase the proportion of post-consumer recycled content in plastic packaging	Our plastic related target is linked to our packaging related target: Reduce packaging related CO2eq emissions by at least 25% by 2026 compared to 2019. As plastic packaging represents 16% of Oleon's emission's related to packaging, actions will be taken to reduce packaging impact such as the reduction of plastic usage (virgin and recycled), increase of recycled plastic in our packaging. However, the main contributor to packaging emission at Oleon is the steel of our drums (50% of CO2eq emissions related to packaging). Plastic packaging emission will be then considered as second leverage to reduce our packaging emissions.

W10.5

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

	Activity applies	Comment
Production of plastic polymers	No	No further comment
Production of durable plastic components	Yes	Oleon produces different types of additives for the durable plastic market such as anti-static, anti-fog, lubricants, mold release agents, dispersing agents and plasticizers.
Production / commercialization of durable plastic goods (including mixed materials)	No	No further comment
Production / commercialization of plastic packaging	No	No further comment
Production of goods packaged in plastics	Yes	A part of our products is sold to customers (B2B) in plastic IBC or small plastic jerrycans.
Provision / commercialization of services or goods that use plastic packaging (e.g., retail and food services)	No	No further comment

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)
9000

Raw material content percentages available to report
% virgin renewable content

% virgin fossil-based content
<Not Applicable>

% virgin renewable content
95

% post-industrial recycled content
<Not Applicable>

% post-consumer recycled content
<Not Applicable>

Please explain
All our products are mainly based on vegetable oil and animal fats.

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 packaging sold / used during the reporting year (Metric tonnes)	Raw material content percentages available to report	% virgin fossil-based content	% virgin renewable content	% post-industrial recycled content	% post-consumer recycled content	Please explain
Plastic packaging sold	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Plastic packaging used	2431.26	% virgin fossil-based content % post-industrial recycled content	37	<Not Applicable>	63	<Not Applicable>	Our packaging usage is summarized in our yearly corporate carbon footprint calculation. Each packaging is decomposed in its primary components with corresponding weight (steel, PP, recycled PE...). All mass is added, giving us the total mass of each type of components (incl plastics) used yearly. The mass reported in this question is the sum of all plastic components (virgin fossil-based and recycled).

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	Please explain
Plastic packaging sold	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Plastic packaging used	% technically recyclable	<Not Applicable>	100	<Not Applicable>	All our plastic packaging is technically recyclable (PP, PE, LDPE, HDPE).

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.

Avril annual report and ISO9001 certificate
E - ISO 9001 Group certificate - 20.12.2023 V1_0.pdf
2022_AvrilIntegratedAnnualReport.pdf

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	Industrial Director	Chief Operating Officer (COO)

SW. Supply chain module

SW0.1

(SW0.1) What is your organization's annual revenue for the reporting period?

	Annual revenue
Row 1	1179000000

SW1.1

(SW1.1) Could any of your facilities reported in W5.1 have an impact on a requesting CDP supply chain member?

No facilities were reported in W5.1

SW1.2

(SW1.2) Are you able to provide geolocation data for your facilities?

	Are you able to provide geolocation data for your facilities?	Comment
Row 1	Yes, for all facilities	Yes, Oleon can provide this information.

SW1.2a

(SW1.2a) Please provide all available geolocation data for your facilities.

Identifier	Latitude	Longitude	Comment
Belgium - Ertvelde	51.180091	3.783958	Oleon headquarters.
Belgium - Oelegem	51.206549	4.588584	No further comment.
Germany - Emmerich	51.831709	6.255606	No further comment.
France - Venette	49.409204	2.79502	No further comment.
Malaysia - Port Klang	3.049763	101.431047	No further comment.

SW2.1

(SW2.1) Please propose any mutually beneficial water-related projects you could collaborate on with specific CDP supply chain members.

Requesting member
Givaudan SA

Category of project
New product or service

Type of project
New product or service that has a lower upstream water impacts

Motivation
Next to CO2 emission related to a product, other environmental impact should be considered to avoid transfer of burden. When shifting from fossil to bio-based products, attention should be given to water related impacts (like water usage, ecotoxicity of water etc...).
In this context, Oleon is placing water usage and water environmental impacts in its scope of analysis to reduce them. Collaboration of supply chain member is welcome.

Estimated timeframe for achieving project
2 to 3 years

Details of project
Oleon is acting at two different levels on water questions:
By assessing all its products by LCA, Oleon is collecting water related data and can calculate water usage and water related environmental impacts of its products. This data is used internally to highlight water intensive products and generate internal initiatives to reduce water impact.
At corporate level, Oleon will set by the end of 2023 water re-use targets in order to reduce our water withdrawals on nature.
With our customer-oriented strategy, we would like to engage our customer into water related project with two objectives:
-Analyze customer raw material portfolio to propose low water intensive alternatives
-Define with our customers, our water re-use target to increase project impact internal and reduce scope 3 water usage of customer.

Projected outcome
The outcome of the project will be a decrease of water usage across the value chain including agricultural stage and Oleon process operations.

Requesting member
L'Oréal

Category of project
New product or service

Type of project
New product or service that has a lower upstream water impacts

Motivation
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Requesting member
Philip Morris International

Category of project
New product or service

Type of project
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Requesting member
Symrise AG

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New product or service

Type of project
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SW2.2

(SW2.2) Have any water projects been implemented due to CDP supply chain member engagement?
No

SW3.1

(SW3.1) Provide any available water intensity values for your organization's products or services.

Submit your response

In which language are you submitting your response?
English

Please confirm how your response should be handled by CDP

	I understand that my response will be shared with all requesting stakeholders	Response permission
Please select your submission options	Yes	Public

Please indicate your consent for CDP to share contact details with the Pacific Institute to support content for its Water Action Hub website.

Yes, CDP may share our Main User contact details with the Pacific Institute

Please confirm below

I have read and accept the applicable Terms