

W0. Introduction

W0.1

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

Orbia is a community of companies bound together by a shared purpose: to advance life around the world. Orbia's business groups have a collective focus on ensuring food security, reducing water scarcity, reinventing the future of cities and homes, connecting communities to data and information services, and expanding access to health and well-being through providing advanced materials, specialty products and innovative, human-centered solutions. Orbia's business groups span the Precision Agriculture, Building and Infrastructure (B&I), Fluorinated Solutions, Polymer Solutions and Data Communication verticals. Products and services cover the following businesses: Polymer Solutions, a PVC resins producer, caustic soda and phosphates, plastic industrial compounds; Fluorinated Solutions, suppliers of fluorine-based compounds, technologies and services; B&I, focused on providing solutions for water management, heating, cooling, and other infrastructure solutions; Data Communication, a leading manufacturer and distributor of conduits for fiber optics and gas pipes; and Netafim, leader in precision irrigation solutions. The company has commercial activities in more than 100 countries and operations in over 50, with global headquarters in Mexico City, Boston, Amsterdam and Tel Aviv and a team of over 24,000 dedicated employees working worldwide.

W-CH0.1a

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

- Bulk organic chemicals
- Bulk inorganic chemicals
- Other, please specify (PVC resins, Fluorine-based compounds and phosphates)

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.

- Argentina
- Australia
- Belgium
- Brazil
- Canada
- Chile
- China
- Colombia
- Costa Rica
- Czechia
- Denmark
- Ecuador
- Finland
- France
- Germany
- Guatemala
- Hungary
- India
- Ireland
- Israel
- Italy
- Japan
- Mexico
- Netherlands
- Norway
- Oman
- Peru
- Poland
- Russian Federation
- South Africa
- Spain
- Sweden
- Turkey
- United Kingdom of Great Britain and Northern Ireland
- United States of America
- Venezuela (Bolivarian Republic of)

W0.4

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

USD

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?

Yes

W0.6a

(W0.6a) Please report the exclusions.

Exclusion	Please explain
Water data reported here includes manufacturing sites only (excluding offices, warehouses, distribution centers or other sites).	Our material impacts on water come from our manufacturing activities.

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	MX01OR010004

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	<p>Water in Orbia is consumed for a variety of process-related activities. Orbia Extrusion Business Groups (Wavin, Dura-Line & Netafim), for example, consume water mainly for washing and cooling equipment (most of it is re-used through a closed-loop system). On the other hand, Orbia Chemical Business Groups (Vestolit, Alphagary & Koura) use it as a resource for production processes. Some consider water as a raw material, and without it, several production processes cannot take place. Water may be sourced or treated to very specific standards that depend on the type of products to be manufactured.</p> <p>Indirect use of water is mainly related to raw material sourcing. Most of our raw materials are considered chemical substances and water use for their production depends specifically on the product characteristics. For example, PVC resins sourced by our Extrusion Business Groups require important quantities of water to be manufactured. Therefore, water availability is important in our supply chain.</p> <p>Future water dependency has been included in our Climate Risk Assessment conducted in 2019. From the sample of 12 high-priority sites analyzed, only 1 shows to have medium risk due to water stress (San Luis Potosí). Mitigation actions are currently being evaluated.</p>
Sufficient amounts of recycled, brackish and/or produced water available for use	Vital	Important	<p>Water is reused where possible. Our Extrusion Business Groups re-use water through closed-loop systems in the majority of their operations. Also, our Las Cuevas Mine in Mexico (San Luis Potosí), located in a water stressed area has high water reuse rates. Our operations are highly dependent on water for operating in optimal conditions, future variations in water availability and pluvial patterns may impact our ability to operate. We aim to update our climate risks assessment, which includes a look into potential scenarios of water availability and drought to keep informing our overall sustainability strategy.</p>

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%	Monthly	Utility bills and/or direct monitoring.	All 134 sites monitor water withdrawal and report data through our internal environmental reporting platform ODISEO on a monthly basis. Data is reported from utility bills. Every quarter, data is validated by plant managers who make sure data is reliable. Orbia always strives to reduce our water withdrawal intensity continuously and expect to maintain this trend.
Water withdrawals – volumes by source	100%	Monthly	Utility bills and/or direct monitoring.	All 134 sites report water withdrawals on a monthly basis, broken down by source: surface water (including rainwater), groundwater, or from a third party (mostly municipal). Every quarter, data is validated by plant managers who make sure data is reliable. Orbia always strives to reduce our water withdrawal intensity continuously and expect to maintain this trend.
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	Less than 1%	Other, please specify (Data is monitored using different frequencies.)	Direct monitoring.	Water withdrawals quality is not monitored at Corporate level, however, some sites do measure this, as required by the nature of their production process.
Water discharges – total volumes	100%	Monthly	Utility bills and/or direct monitoring.	All 134 sites monitor and report their monthly water discharge data based on water utility bills, measuring devices, and in some cases (mostly for those with closed-loop systems), based on estimations. Every quarter, data is validated by plant managers who make sure data is reliable.
Water discharges – volumes by destination	100%	Monthly	Utility bills and/or direct monitoring.	All 134 sites report water discharges, on a monthly basis, broken down by destination: surface water, seawater, groundwater and to a third party (mostly municipal). Every quarter, data is validated by plant managers who make sure data is reliable.
Water discharges – volumes by treatment method	Not monitored	<Not Applicable>	<Not Applicable>	Water discharges by treatment method are currently not reported at Corporate Level, but are monitored at site level where applicable.
Water discharge quality – by standard effluent parameters	Less than 1%	Other, please specify (Frequency of monitoring depends on local regulations.)	Method of measurement depends on local regulations.	Wastewater discharge quality is strictly governed by local regulations and parameters are set specifically for each watershed. Orbia's operations abide by these local regulations. It is important to note that 75% of our production sites have closed looped water systems, therefore, this indicator is not material at Corporate level. These parameters are mostly applicable to our chemical plants (34 out of 134 operational sites), and are reported annually, in line with local requirements.
Water discharge quality – emissions to water (nitrates, phosphates, pesticides, and/or other priority substances)	Not monitored	<Not Applicable>	<Not Applicable>	Water discharge emissions to water are currently not reported at Corporate Level, but are monitored at site level where applicable.
Water discharge quality – temperature	Less than 1%	Other, please specify (Frequency of monitoring depends on local regulations.)	Method of measurement depends on local regulations.	Water discharge quality by temperature is not monitored at Corporate level, however, some sites measure this parameter, in line with local regulation.
Water consumption – total volume	100%	Monthly	Utility bills and/or direct monitoring.	Consumption is calculated based on withdrawal and discharge data reported by sites on a monthly basis in our internal software for environmental data collection, ODISEO.
Water recycled/reused	Less than 1%	Other, please specify (Data is monitored using different frequencies.)	Data is calculated using different methodologies.	Water recycled or reused is relevant for our Extrusion Business Group sites and for the Mine at Las Cuevas only. This parameter is monitored at local level and since data is calculated using different methodologies, it is not aggregated at Corporate level.
The provision of fully-functioning, safely managed WASH services to all workers	100%	Other, please specify (As mentioned in point W0.6a, water data reported by Orbia includes manufacturing sites only (excluding offices, warehouses, distribution centers or other sites).)	As mentioned in point W0.6a, water data reported by Orbia includes manufacturing sites only (excluding offices, warehouses, distribution centers or other sites).	All sites, warehouses and offices have WASH services available to 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	15153	About the same	Increase/decrease in business activity	Lower	Increase/decrease in efficiency	Difference with previous year is less than -1%. We expect withdrawals to maintain or decrease with increased investments in water efficiency measures, and water circularity.
Total discharges	9770	Lower	Investment in water-smart technology/process	Lower	Increase/decrease in efficiency	Difference with previous year is -15%. This is mainly due to increased water reuse in some key plants, and minor changes in the calculation methodology. We expect discharges to maintain or decrease with increased investments in water efficiency measures, and water circularity.
Total consumption	5383	Higher	Change in accounting methodology	Lower	Increase/decrease in efficiency	Difference with previous year is +48%, however. Variation is mainly due to increased water reuse in some key plants, leading to reduce discharges volume (therefore, increasing total consumption value) and minor changes in the discharge calculation methodology. We expect total consumption to maintain or improve these levels in the future as we progress on improved water efficiencies and expand re-use activities.

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	Yes	26-50	About the same	Increase/decrease in business activity	About the same	Increase/decrease in efficiency	WRI Aqueduct	Based on our updated 2022 assessment using the World Resources Institute (WRI) Aqueduct Version 3.0 tool, 56 of our plants are in areas of high or extremely high water stress, representing 42% of our sites and 47% of our total water withdrawal.

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	9259	About the same	Increase/decrease in business activity	Water withdrawn from surface bodies increased by less than 1% compared to previous year. We expect fresh water withdrawn to be reduced as efficiency investments prove improved results.
Brackish surface water/Seawater	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	None of our sites withdraw brackish or sea water.
Groundwater – renewable	Relevant but volume unknown	<Not Applicable>	<Not Applicable>	<Not Applicable>	We do not differentiate between groundwater renewable and non-renewable. To provide a more conservative value, we report all groundwater as non-renewable.
Groundwater – non-renewable	Relevant	4656	About the same	Increase/decrease in business activity	We do not differentiate between groundwater renewable and non-renewable. To provide a more conservative value we report all groundwater as non-renewable. Groundwater withdrawal decreased 1% compared to previous year.
Produced/Entrained water	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	We do not use produced water or entrained water.
Third party sources	Relevant	1238	About the same	Increase/decrease in business activity	Water from third parties decreased by less than 1% compared to previous year.

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	6027	Much lower	Change in accounting methodology	Difference with previous year is -21%. Variation is mainly due increased water reuse in some key plants, leading to reduce discharge volume, and minor changes in the discharge calculation methodology.
Brackish surface water/seawater	Relevant	1381	Lower	Increase/decrease in business activity	Difference with previous year is -5%. This is mainly due to a decrease in the total production of sites discharging to the sea.
Groundwater	Relevant	26	Much higher	Mergers and acquisitions	Difference with previous year is +142%. This is mainly due to new acquisitions in India (Vectus and Shakun) which discharge their wastewater into the ground.
Third-party destinations	Relevant	2337	Lower	Change in accounting methodology	Difference with previous year is -3%. This is mainly due to a decrease in the total production of sites discharging to third-party destinations.

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	9648	15153	0.636705602850921	Revenue is in millions of dollars.

W-CH1.3

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

Yes

W-CH1.3a

(W-CH1.3a) For your top five products by production weight/volume, provide the following water intensity information associated with your activities in the chemical sector.

Product type

Other, please specify (Chemical products from all chemical sites)

Product name

All products manufactured by Vestolit, Alphagary and Koura

Water intensity value (m3/denominator)

2.08

Numerator: water aspect

Total water withdrawals

Denominator

Ton

Comparison with previous reporting year

Higher

Please explain

Production in chemical sites decreased 14% compared to 2021.

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	Yes	<Not Applicable>

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%	<p>Across Orbia, we remain focused on opportunities to reduce environmental and health risk in our product lines. Human health and environmental risk assessments have been conducted on 92% of products (in terms of revenues) to determine their potential impact.</p> <p>The majority of these products come from our Fluorinated Solutions, Polymer Solutions and Connectivity Solutions businesses.</p> <p>We currently comply with the registration, Evaluation, Authorization and Restriction of Chemicals (REACH) requirements for all substances produced or imported in Europe for all relevant operations across Orbia.</p> <ul style="list-style-type: none"> • One percent of products (in terms of revenues) contain restricted substances in Annex XVII of REACH. • We use no regulated substances of Very High Concern (SVHC) as defined by REACH legislation, or by the European Restriction of Hazardous Substances, or substances of international concern (RoHS) in our Koura, Vestolit and Dura-Line businesses.
Candidate List of Substances of Very High Concern for Authorisation above 0.1% by weight (EU Regulation)	Less than 10%	<p>Across Orbia, we remain focused on opportunities to reduce environmental and health risk in our product lines. Human health and environmental risk assessments have been conducted on 92% of products (in terms of revenues) to determine their potential impact.</p> <p>The majority of these products come from our Fluorinated Solutions, Polymer Solutions and Connectivity Solutions businesses.</p> <p>The Candidate List of substances of very high concern (SVHC) for Authorization above 0.1% by weight are in 2% (by revenue) of our products. Alphagary has taken a targeted approach to finding viable replacements for phthalate-based products.</p>

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 Applicable>
Other value chain partners (e.g., customers)	Yes	<Not Applicable>	<Not Applicable>

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

Procurement spend

Number of suppliers identified as having a substantive impact

16

% of total suppliers identified as having a substantive impact

1-25

Please explain

Our assessment program, enabled by EcoVadis, provides us with environmental assessment, monitoring and improvement services for our suppliers. The implementation of this program takes an approach aligned to risk and overall water management. Through the corrective action plans function we are able to identify cases where impact water issues needs to be improved. Our Ecovadis program currently covers Wavin, Duraline, Vestolit and Koura UK, and the other groups of companies will adopt this program in the coming years. From 2022, our supplier evaluation program will cover 80% of our total spend on the operations of these brands. Figures referenced above represent the number of suppliers in our Ecovadis Program for which corrective actions related to water were required during 2022.

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	No, and we do not plan to introduce water-related requirements within the next two years	Orbia is currently working on a revamped global water plan, considering water related risks and opportunities as the main drivers to guide actions. On the one hand, priority high-risk plants operating in water stress areas will develop context-based water goals contributing to our aspiration to be net positive, while in parallel driving collective action by engaging in Water Positive Impact activities in targeted water basins (E.g., rainwater management, WASH, regenerative agriculture). As this program evolves, water-related requirements to suppliers will be incorporated in the future.

W1.5d

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

Type of engagement

Information collection

Details of engagement

Collect water management information at least annually from suppliers

Collect information on water-related risks at least annually from suppliers

Collect water quantity information at least annually from suppliers (e.g., withdrawal and discharge volumes)

Collect water quality information at least annually from suppliers (e.g., discharge quality, pollution incidents, hazardous substances)

% of suppliers by number

1-25

% of suppliers with a substantive impact

1-25

Rationale for your engagement

Our supplier program, enabled by EcoVadis, provides supplier water assessment, monitoring, and improvement. The implementation of this program is based on the collection of the most relevant information for water management through key indicators of water quantity, quality and availability, adopting a risk-aligned, phased approach and currently covers Wavin, Duraline, Vestolit, and Koura UK, with the remaining business groups to adopt this program in upcoming years. As of 2022, our supplier assessment program covers 80% of our total spend across these brand operations. More than 90 additional suppliers were onboarded during 2022.

Impact of the engagement and measures of success

In 2022, 58% of the suppliers that took an EcoVadis assessment in 2021 have shown an improvement in their score, and 21% show a stable score. Most suppliers that have been required to present action plans have shown progress, with most improvement areas linked to actions to manage water efficiency, and establishment of quantitative targets for water and environmental water policy. The average score is currently 53, and 83% of our re-assessed suppliers are above required performance level.

Comment

Figure provided for % of suppliers by number only considers the universe of suppliers representing 80% of our spent in the 4 participant Business Groups.

W1.5e

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

Type of stakeholder

Other, please specify (Neighboring company)

Type of engagement

Innovation & collaboration

Details of engagement

Collaborate with stakeholders on innovations to reduce water impacts in products and services

Rationale for your engagement

Orbia's Polymer Solutions Business Vestolit's Cartagena (Colombia) plant, has progressed on its partnership with a neighboring company that will reuse our plant's water discharge. The system is ready to be fully tested in 2023 to determine additional reconditioning activities for full implementation.

Impact of the engagement and measures of success

This project will benefit local factories, residents and alleviate water stress levels in the watershed.

Type of stakeholder

Other, please specify (NGO)

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

Orbia's Precision Agriculture Business Netafim, in partnership with the NGO Kusimayo, aims to transform the subsistence economy in rural areas of Puno in Peru into an economy of entrepreneurs. The Productive Puno Program will train thousands of families to use our electric-powered water tanks to optimize their crop yields in their organic gardens.

They also had the opportunity to optimize the use of water and other resources, growing more with less.

Impact of the engagement and measures of success

Retrieving data. Wait a few seconds and try to cut or copy again.

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

The eco-system service benefits related to water management is a key component of Orbia's Precision Agriculture's business group and the Netafim brand. Two examples are the environmental benefits of drip irrigated rice and effluent management through subsurface drip irrigation. Not only do we work with growers/customers to discuss the water benefits of these practices, we also work with the agricultural supply chain; educating them on these innovative solutions that equally benefit the environment and the customer.

Impact of the engagement and measures of success

Applied in pilot projects in Italy and the U.S. over the past 3 years, Netafim's subsurface drip irrigation (SDI) system provides several environmental benefits, including healthier soil and root environment, water conservation, nutrient conservation, energy conservation, GHG emissions reduction and improved crop yield.

W2. Business impacts

W2.1

(W2.1) Has your organization experienced any detrimental water-related impacts?

Yes

W2.1a

(W2.1a) Describe the water-related detrimental impacts experienced by your organization, your response, and the total financial impact.

Country/Area & River basin

Japan	Other, please specify (Numata River)
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Type of impact driver & Primary impact driver

Acute physical	Heavy precipitation (rain, hail, snow/ice)
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Primary impact

Closure of operations

Description of impact

Heavy rainfall (flood), mainly in western Japan. Industrial water supply stopped, shutting down the plant for two weeks. This impact affected 1 production site.

Primary response

Improve maintenance of infrastructure

Total financial impact

1000000

Description of response

Industrial water supply corporation upgraded facilities (fault of supplier's pump caused stop of industrial water). Disaster prevention regulations of the plant were updated to include flood response.

Country/Area & River basin

Mexico	Verde
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Type of impact driver & Primary impact driver

Acute physical	Heavy precipitation (rain, hail, snow/ice)
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Primary impact

Increased operating costs

Description of impact

Atypical rains resulting in contact water spills from tailings dams, on a local stream. There was no environmental damage, but communities were supported as compensation for the time in which they did not use water from the stream. This impact affected 1 production site.

Primary response

Engage with local communities

Total financial impact

1111500

Description of response

Waterwells rehabilitation, equipment and infrastructure for cattle association and roofing infrastructure for a local/rural highschool. In order to avoid spills in the dam when heavy rains happen, a wall is constructed.

Country/Area & River basin

Mexico	Verde
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Type of impact driver & Primary impact driver

Chronic physical	Water scarcity
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Primary impact

Increased operating costs

Description of impact

Insufficient water for the plants to be able to operate. This impact affected 2 production sites sourcing water from the same river basin (Rio Verde).

Primary response

Secure alternative water supply

Total financial impact

3102160

Description of response

Water had to be purchased via tank trucks.

Country/Area & River basin

Mexico	Bravo
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Type of impact driver & Primary impact driver

Acute physical	Heavy precipitation (rain, hail, snow/ice)
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Primary impact

Increased operating costs

Description of impact

Atypical raining season derived in dams' spilling.
This impact affected 1 production site.

Primary response

Engage with local communities

Total financial impact

99010

Description of response

Repairment actions include roads cleaning (for the company and the community) and barriers improvement for community protection. We also carried out a dam inspection and water quality tests to prove no negative impact to community's water quality.

Country/Area & River basin

Mexico	Bravo
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Type of impact driver & Primary impact driver

Chronic physical	Water scarcity
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Primary impact

Increased operating costs

Description of impact

Insufficient water for the plants to be able to operate.
This impact affected 1 production site.

Primary response

Secure alternative water supply

Total financial impact

92262

Description of response

Water had to be purchased via tanker trucks.

Country/Area & River basin

Mexico	Other, please specify (Verde & Bravo Rivers)
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Type of impact driver & Primary impact driver

Regulatory	Tighter regulatory standards
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Primary impact

Increased compliance costs

Description of impact

Changes in the regulation requires the purchase of new digital water meters and their respective installation.
This impact affected 5 production sites.

Primary response

Comply with local regulatory requirements

Total financial impact

483309

Description of response

Since it is a legal requirement, digital water meters are being purchased.

Country/Area & River basin

Mexico	Other, please specify (Lerma River)
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Type of impact driver & Primary impact driver

Chronic physical	Water scarcity
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Primary impact

Increased operating costs

Description of impact

Since 2017, authorized wells by the competent authority have been exhausted. This, summed up to the lack of water suppliers has led to excessive costs of water supply through tanker trucks (double what would be paid with the exploitation of the well).
This impact affected 1 production site.

Primary response

Secure alternative water supply

Total financial impact

1047290

Description of response

In agreement with the government of the state of Jalisco, the construction of the Purple Line system began, a network of pipes that will allow us to supply our El Salto plant with treated water to use it cyclically in our production processes. By 2024, we expect to use about 432,000m3 of wastewater per year from the El Ahogado treatment plant.

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	Yes	Fines	During 2022, we paid a material fine related to the exceedance of two wastewater discharge parameters in one of our facilities in Guatemala, which have been resolved and under control. The total amount paid for this fine was \$46.8K USD.

W2.2a

(W2.2a) Provide the total number and financial value of all water-related fines.

Row 1

Total number of fines

1

Total value of fines

46800

% of total facilities/operations associated

0

Number of fines compared to previous reporting year

Higher

Comment

During 2022, we paid a material fine related to the exceedance of two wastewater discharge parameters in one of our facilities in Guatemala, which have been resolved and under control. The total amount paid for this fine was \$46.8K USD.

W2.2b

(W2.2b) Provide details for all significant fines, enforcement orders and/or other penalties for water-related regulatory violations in the reporting year, and your plans for resolving them.

Type of penalty

Fine

Financial impact

46800

Country/Area & River basin

Guatemala	Other, please specify (Río María Linda)
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Type of incident

Effluent limit exceedances

Description of penalty, incident, regulatory violation, significance, and resolution

During 2022, we paid a material fine related to the exceedance of two wastewater discharge parameters in one of our facilities in Guatemala, which have been resolved and under control. The total amount paid for this fine was \$46.8K USD.

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	Water pollutants are identified and classified through water quality analysis carried out by external laboratories in compliance with local regulation.	<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

Other nutrients and oxygen demanding pollutants

Description of water pollutant and potential impacts

Potential impacts of oxygen demanding pollutants are mainly around aquatic organism stress, reduced biodiversity and disruption of food chains. Further details are provided below:

- * Biochemical Oxygen Demand (BOD) is a critical parameter used to determine the quality of water. BOD measures the amount of dissolved oxygen required by microorganisms to break down organic matter in water.
- * Chemical Oxygen Demand (COD) is an important water quality parameter because, similar to BOD. It provides an index to assess the effect discharged wastewater will have on the receiving environment.
- * Total Organic Carbon (TOC) is a measure of the total amount of carbon in organic compounds in pure water and aqueous systems. TOC is a valued, analytical technique that is applied by organizations and labs to determine how suitable a solution is for their processes.
- * Total Suspended Solids (TSS) is usually sufficient for making routine environmental management decisions but does not provide detailed information about the suspended particles. Silt, clay, sand, algae and bits of plant material are all trapped on the filter and become part of the TSS measurement.

Value chain stage

Direct operations

Actions and procedures to minimize adverse impacts

Assessment of critical infrastructure and storage condition (leakages, spillages, pipe erosion etc.) and their resilience
 Industrial and chemical accidents prevention, preparedness, and response
 Discharge treatment using sector-specific processes to ensure compliance with regulatory requirements

Please explain

Our chemical manufacturing facilities have preventive and corrective action plans carried out every year, according to an annual plan with the objective of identifying potential leakages, spills, pipe erosion, etc.
 Business Groups have a full standard to prevent chemical accidents including the HSE fundamentals as part of the continuous communication and prevention at the plants. Also, every site has its own procedure for emergency preparedness and response such as annual training, HSE drills, local participation in regional drills, monthly follow-up with the site managers and global directors; among other activities.
 Every site has its own wastewater treatment plant to comply with the local regulations.

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
Supply chain

Coverage

Partial

Risk assessment procedure

Water risks are assessed in an environmental risk assessment

Frequency of assessment

Every three years or more

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

Tools and methods used

WRI Aqueduct
WWF Water Risk Filter
IPCC Climate Change Projections

Contextual issues considered

Water availability at a basin/catchment level
Stakeholder conflicts concerning water resources at a basin/catchment level
Water regulatory frameworks

Stakeholders considered

Local communities
Regulators
Suppliers

Comment

Orbia has looked into water-related risks as part of its climate-related risk management process carried out in line with TCFD recommendations in 2019 for 12 high priority sites. Through this assessment, we have evaluated risks related to water stress by using the WRI Aqueduct tool and the IPCC projections on annual change in precipitation, and annual change in seasonal total soil moisture content . Also, water risk assessments for all Vestolit resin plants in Mexico and Colombia were completed (representing around 47% of Orbia's consumption and 60% of consumption in water stressed areas) and during 2023, we aim to use these results to establish context-based water targets. We are looking into supply chain water-related data and potential risks through our Ecovadis program where Wavin, Duraline and Koura UK participate to assess their suppliers on several environmental topics (including water). The selected set of suppliers represent 80% of their spend.

Stakeholder conflicts concerning water resources are considered within the particular water risk assessments conducted at site level. In Koura, for example, as pluvial patterns changed last year, potential impacts of this change were discussed with the neighboring community and the Company took actions to be prepared to handle the additional unexpected water volume. In 2021 Koura began a multi-year process to strengthen its Corporate Social Responsibility (CSR) & Community Engagement Management System. Initial steps included a third-party audit on social engagement; a social impact assessment within Koura's influence zone; a stakeholder mapping tool to identify key groups; and defining a community interaction mechanism. In 2022, Koura grew its presence in communities, expanding engagement community offices from 1 to 3 and building a stronger multidisciplinary team. This enables the business to reach over 2,000 people between small villages and neighboring communities close to mining operations in Mexico. https://www.orbia.com/49ac8a/siteassets/6.-sustainability/2022-impact-report/orbia_impact_report_2022.pdf (p. 66)

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	<p>Orbia’s Critical Risk Committee (CRC) oversees four primary risks to the Company: Strategic/Business, Financial, Operational, and Reputational. Climate risks (including water risk) have been integrated into these multi-disciplinary company-wide risk management processes since 2020.</p> <p>Water risks reviews are assessed within Orbia’s TCFD aligned climate risk assessment, as it includes flooding, scarcity & water stress under the physical risks review, and water regulatory aspects and reputation as part of the transition risks.</p> <p>Orbia is completing and updated exercise, covering 100% of our operating plants and key value chains, looking into outcomes to 2030 and 2050 using the following scenarios: SSP1: Sustainability – Taking the Green Road SSP5: Fossil-fueled Development Network for Greening the Financial System (NGFS) scenarios: Orderly Transition and Hot House World.</p> <p>A risk register is being updated, including financial quantification, which will allow to classify material risks as low, medium or high.</p> <p>In addition, Orbia conducts an annual update of water stress levels by using the AQUEDUCT from WRI. All this, in combination with specific local risk reviews (many of them using WWF’s Water Risk filter and including additional stakeholders like neighboring communities) allows for prioritization to set specific local goals and develop action plans.</p>	<p>Climate change is essentially a water crisis; its effects manifest in the form of increased floods, rising sea levels, increased scarcity, wildfires and droughts. This is why we have chosen to include our water-related risks reviews into our regular updates of our TCFD aligned climate risk assessment. To complement these efforts, water stress levels are reviewed with a higher frequency (annually) through the AQUEDUCT tool from WRI, which provide a quick overview and informs on updates across our operating sites much faster than our regular climate-risk assessments. According to the tool, 42% of our sites were in areas of high or extremely high stress at end 2022, representing 47% of total water withdrawal. This type of outcome informs our BGs about priority sites where additional efforts are needed. In the same way sites where a deeper dive is needed, complement the outcomes of the previously mentioned tool with WWF’s water risk Filter as it provides more details than the AQUEDUCT tool in much less time than a complex TCFD assessment.</p>	<p>Our initial TCFD assessment only considered direct operations. Our ongoing update will include a review of water related risks upstream and downstream our value chain. As relevant sites use additional tools to assess their risks with more detailed local information, most of them have identified neighboring communities as an important stakeholder to include in their expanded assessments.</p>	<p>Orbia’s Critical Risk Committee (CRC) oversees four primary risks to the Company: Strategic/Business, Financial, Operational, and Reputational. Climate risks have been integrated into these multi-disciplinary company-wide risk management processes since 2020.</p> <p>The CRC, chaired by our Chief Executive Officer (CEO), is comprised of our Chief Financial Officer (CFO), General Counsel, Internal Audit Vice President (VP), Health, Safety, Environment & Engineering VP, Chief Information Officer, Sustainability VP, and Presidents of the five business groups. The CRC meets quarterly and is responsible for identifying and assessing enterprise risks (including climate and water risks), evaluating the appropriate risk profile for the enterprise, developing risk mitigation plans, and overseeing their implementation. Likelihood and potential impact of material risks are identified and prioritized based on their timeframe and relevance to Orbia’s strategic objectives. The results of these assessments are aggregated to form a Risk Register, reviewed and approved by the CRC.</p> <p>This group is informed of climate and water related risks based on the results of our TCFD aligned climate-risk assessment, which makes use of the most recent science as it is based on IPCC’s most recent information and internal environmental performance data of each site.</p> <p>More information is available at : https://www.orbia.com/4949be/sites/eassets/6.-sustainability/2021-sustainability-report/orbia_climate_report_2021.pdf</p>

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?

As part of our business processes, we continually identify climate and/or water related risks, including physical, transitional, regulatory, and other risks. The Orbia risk management teams quantify the potential financial impact and timeframe of each risk.

Risks with higher financial impact are prioritized for mitigating action.

A risk with a substantive (high) financial impact on a global Orbia corporate level is one where the potential financial impact was identified as greater than 50 Million USD . However- a risk can be considered substantive for a specific Orbia business group or site with a lower potential financial impact as well. Also, the risk impact can be considered substantive/strategic on a global Orbia level even with a lower potential impact, pending on significant potential influence in terms of safety, environmental or other forms of compliance, business continuity or reputation.

The following are the risk threshold categories as defined by Orbia. The threshold category names have been adjusted to match those used in this section of the CDP questionnaire.

1. High: \$50MM or greater USD
2. Medium-high : \$37.5MM USD – \$50MM USD
3. Medium : \$22.5MM - \$37.5MM USD
4. Low-medium: \$7.5MM - \$22.5MM USD
5. Low: Less than \$7.5MM USD

As part of our ongoing update to our TCFD-aligned Climate Risk Assessment, new thresholds are being discussed in alignment with updated company-wide risk management practices.

W4.1b

(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
Row 1	1	Less than 1%	We have included water-related risks in our TCFD-aligned climate risk assessment. The analysis covered twelve high priority sites from three of Orbia's Business Groups across six countries. The screening process considered prior risk assessment work done internally, combined with the financial exposure of site impact. Only one of our evaluated sites has been identified to be at medium risk in terms of financial impact related to water stress .

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

Mexico	Verde
--------	-------

Number of facilities exposed to water risk

1

% company-wide facilities this represents

Less than 1%

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

Less than 1%

Comment

We have included water-related risks in our TCFD-aligned climate risk assessment. The analysis covered twelve high priority sites from three of Orbia's Business Groups across six countries. The screening process considered prior risk assessment work done internally, combined with the financial exposure of site impact. Only one of our evaluated sites has been identified to be at medium risk in terms of financial impact related to water stress .

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

Mexico	Verde
--------	-------

Type of risk & Primary risk driver

Chronic physical	Water stress
------------------	--------------

Primary potential impact

Increased production costs

Company-specific description

A decrease on water supply from underground sources (mainly) could result in an increase of production costs, since alternate water supplies (exceeding projections) need to be sourced.

Timeframe

1-3 years

Magnitude of potential impact

Low

Likelihood

More likely than not

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)

2500000

Potential financial impact figure - maximum (currency)

4000000

Explanation of financial impact

Value calculated is the average of impact on revenue in case of water stress affecting our 12 higher risk sites evaluated, although only 1 site has a medium risk of this materializing

Primary response to risk

Secure alternative water supply

Description of response

Identify additional water sources for our medium risk operation and source from this alternative sources when necessary.

Cost of response

2400000

Explanation of cost of response

The calculation covers the estimated cost of buying additional water to supplement our operations at our 1 medium risk site over one year. Based on historical water shortages, we estimate a requirement of at least 1100 m3 of water per day at a cost of 6 USD/m3. This is a short-term cost impact and does not consider potential complications associated with the sourcing and availability of supplementary water sources, or related community concerns.

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	Not yet evaluated	Initial global efforts are mainly focused on direct operational risk, however, our Vestolit Business Group's efforts to understand the water footprint of 5 sites, have provided a sense about water-related risks from their most relevant raw materials. This will help inform future actions to understand our exposure to water risks in our value chain. Financial impact of these has not been quantified yet. Additional BGs will take actions on this direction as well. As part of our continuous improvement processes, we are collaborating with different areas of our organization to strengthen our scenario analysis capability. We will analyze new scenarios in 2022, in line with the most recent available information, and will include additional stages of our value chain.

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) Provide details of opportunities currently being realized that could have a substantive financial or strategic impact on your business.**Type of opportunity**

Resilience

Primary water-related opportunity

Increased resilience to impacts of climate change

Company-specific description & strategy to realize opportunity

Orbia's Polymer Solutions Business Vestolit's El Salto (Mexico) plant continues to progress on its project to source treated (grey) water from the municipal water treatment plant and return it for treatment after use in its production process. Work to build the pumping system is underway and the project is expected to be completed in 2023. Through this project, groundwater will no longer be withdrawn, reducing impact on the basin, which is already impacted by water-stress.

Orbia's Fluorinated Solutions Business Koura continues its program of responsible mining practices. The installation of process water recovery systems has resulted in an average recovery of 85% at Las Cuevas mining site in Mexico. Equipment installed in 2022 included three decanter centrifuge systems. Three additional decanter centrifuges will be installed and operational in 2023. This equipment increases water recovery rates and enables tailings to be dry-stacked and stored safely.

Estimated timeframe for realization

4 to 6 years

Magnitude of potential financial impact

Low-medium

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

18900000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact

Water savings from both projects are expected to be of approximately 450,000 cubic meters per year. Figure above represents expected financial savings (2023-2029) from avoiding purchasing water. Average cost per cubic meter is \$7 USD.

Type of opportunity

Products and services

Primary water-related opportunity

Increased sales of existing products/services

Company-specific description & strategy to realize opportunity

Orbia's Building & Infrastructure brand, Wavin, has consolidated a robust portfolio to boost urban climate resilience. With stormwater management solutions, Wavin is helping cities to be more climate resilient and reduce the costs and damage from increased flooding, particularly in Europe. They also contribute to relieving heat stress and help alleviate groundwater depletion with infiltration/attenuation units, and to leverage the value of rainwater harvesting through blue-green roofs offerings.

<https://www.wavin.com/en-ie/catalogue/rainwater-stormwater>

<https://www.wavin.com/en-ie/Knowledge-Centre/News/Five-ways-to-reduce-urban-heat-stress>

Estimated timeframe for realization

4 to 6 years

Magnitude of potential financial impact

High

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)

134000000

Potential financial impact figure – maximum (currency)

332000000

Explanation of financial impact

Figures above are based on estimated revenue forecasts to 2028. Revenues from these solutions are expected to grow at least 10% by 2023.

In 2022, our urban climate resilience solutions' revenues reached \$92M USD

Type of opportunity

Products and services

Primary water-related opportunity

Increased sales of existing products/services

Company-specific description & strategy to realize opportunity

Through our Netafim business we are developing products, services, and technologies that lower the environmental footprint of food production while enabling crop cultivation under changing climate conditions and improving soil health and water usage.

- Rice is a staple and significant source of caloric intake for more than half of the world's population, but also consumes 30- 40% of the world's annual freshwater and

contributes to over 10% of the world's methane emissions. Netafim's first-ever carbon credit program for drip-irrigated rice aims to reduce methane emissions from rice cultivation to almost zero. It will provide carbon credits (registered with Verra) as a key financial mechanism and long-term income assistance to farmers interested in regenerative agriculture practices that reduce or sequester CO2 emissions.

- According to the UN, more than 660 million live in small urban centers under water and food scarcity. In 2021, Netafim acquired Dutch Greenhouse Company Gakon Horticultural Projects to meet the growing demand for local food production in all climates. Yields in commercial greenhouse projects are increasing by up to 8-10 times in comparison to open field growing. Growers can now produce crops all year round, even in urban areas and fresh local food is available for local markets, while resources like water and fertilizer use is being cut by up to 40%.

Estimated timeframe for realization

4 to 6 years

Magnitude of potential financial impact

High

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)

520000000

Potential financial impact figure – maximum (currency)

740000000

Explanation of financial impact

- Extensive crops cover about 88% of irrigated land globally. Nonetheless, micro-irrigation only covers an estimated <1% of this land. Based on the emergence of new incentives such as carbon/water credits, new technological breakthroughs, and wider adoption of sustainability criteria by governments, Netafim predicts a 5% CAGR in sales of irrigation products and solutions for extensive crop cultivation to 2025.

- The Greenhouse market is a ~\$3 billion market, with an estimated CAGR of at least 7% for the upcoming years. Netafim accelerated its penetration to this market with the acquisition of Gakon. Together, the combined revenues expected to reach ~\$200M by 2025. In addition, the urban farming market is expected to significantly grow in the upcoming years, due to trends of local food production and food security concerns. This market is a direct fit to Netafim and Gakon capabilities, and estimated to contribute additional revenues by 2025.

- Financial estimation of continued growth in community irrigation in India as well as initial penetration to additional geographies.

In 2022, our precision irrigation revenues accounted for 11% of Orbia's revenue.

W5. Facility-level water accounting

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)

Las Cuevas

Country/Area & River basin

Mexico	Verde
--------	-------

Latitude

21.941647

Longitude

-100.577946

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)

594

Comparison of total withdrawals with previous reporting year

Much higher

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

74

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

520

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

0

Total water discharges at this facility (megaliters/year)

0

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

0

Total water consumption at this facility (megaliters/year)

597

Comparison of total consumption with previous reporting year

Much higher

Please explain

* Water withdrawal increased by 21% vs 2021 mainly due to the lack of rainwater in our dam. To run the site, we had to purchase water via tanker trucks.

* Water discharges decreased by 100% vs 2021 due to the water recirculation in the site. The plant operates in a closed-loop.

W5.1a

(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

International Auditing Standard ISAE 3000 Revised Assurance Engagements

Please explain

<Not Applicable>

Water withdrawals – volume by source

% verified

76-100

Verification standard used

International Auditing Standard ISAE 3000 Revised Assurance Engagements

Please explain

<Not Applicable>

Water withdrawals – quality by standard water quality parameters

% verified

Not verified

Verification standard used

<Not Applicable>

Please explain

This indicator is not monitored in the site.

Water discharges – total volumes

% verified

76-100

Verification standard used

International Auditing Standard ISAE 3000 Revised Assurance Engagements

Please explain

<Not Applicable>

Water discharges – volume by destination

% verified

76-100

Verification standard used

International Auditing Standard ISAE 3000 Revised Assurance Engagements

Please explain

<Not Applicable>

Water discharges – volume by final treatment level

% verified

Not verified

Verification standard used

<Not Applicable>

Please explain

This indicator is not monitored in the site.

Water discharges – quality by standard water quality parameters

% verified

Not verified

Verification standard used

<Not Applicable>

Please explain

This indicator is not monitored in the site.

Water consumption – total volume

% verified

76-100

Verification standard used

International Auditing Standard ISAE 3000 Revised Assurance Engagements

Please explain

<Not Applicable>

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	<p>Description of the scope (including value chain stages) covered by the policy</p> <p>Description of business dependency on water</p> <p>Commitment to align with international frameworks, standards, and widely-recognized water initiatives</p> <p>Commitment to prevent, minimize, and control pollution</p> <p>Commitment to reduce water withdrawal and/or consumption volumes in direct operations</p> <p>Commitment to safely managed Water, Sanitation and Hygiene (WASH) in local communities</p> <p>Commitment to water stewardship and/or collective action</p> <p>Commitments beyond regulatory compliance</p> <p>Reference to company water-related targets</p>	<p>- Our Sustainability Policy includes our commitment to water stewardship https://www.orbia.com/sustainability/policies-and-guidelines/sustainability-policy/</p> <p>- As part of our purpose, to advance life around the world, our businesses are committed to address the world's most critical challenges, including water management. Described here: https://www.orbia.com/GloballImpact/</p> <p>- Because our business aspires to advance global sustainable development and deliver solutions to the world's most pressing challenges, we pledged support for the United Nations' Sustainable Development Goals (UN SDGs). In order to assess how and to what extent our solutions contribute to the SDGs and their targets, we are committed to continuously evaluate the value delivered by Orbia's products and solutions towards water access and sanitation. https://www.orbia.com/GloballImpact/</p> <p>- Our \$130 million USD venture capital fund, Orbia Ventures, invests in and collaborates with startups that aspire to advance life around the world. Water infrastructure innovation is one of the focus areas. https://www.orbia.com/ventures/ov-focus-areas/</p> <p>- Orbia is part of The CEO Water Mandate, a UN's initiative to provide a multi-stakeholder platform to advance corporate water sustainability policies and practices.</p> <p>- Our expertise and focus are on improving water conservation and access as well as developing sanitation infrastructure. We provide solutions in access to water, sanitation and hygiene to mitigate the deficit in coverage and quality of provision of basic WASH services for communities in Latin America through the development of strategic alliances with project partners in the communities.</p> <p>- In 2022, Netafim joined the UN Global Compact Water Resilience Coalition, a business pledge to preserve the world's most water-stressed river basins by elevating global water stress to the top of the corporate agenda and preserve the world's freshwater resources through collective action in waterstressed basins and ambitious, quantifiable commitments. Also, Wavin and Netafim have been actively participating in the consultation process to prepare for the 2023 UN Water Conference. These are some of the many ways Orbia demonstrates its commitment to being responsible water stewards and promoting collective action.</p>

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
Board-level committee	<p>The Board's Corporate Practices Responsibility and Compensation Committee has oversight on our overall Sustainability strategy, including water issues. Every Quarter, our VP of Sustainability and VP of Health, Safety and Environment & Engineering report progress on targets to this committee, including our water performance.</p> <p>In addition, Orbia's Critical Risk Committee (CRC), reports to the Audit Committee, and is responsible for identifying and assessing enterprise risks, evaluating the appropriate risk profile for the enterprise, developing risk mitigation plans, and overseeing their implementation. These risks include water risks within the climate change scope, both physical and transition.</p>

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	<p>Monitoring implementation and performance</p> <p>Overseeing the setting of corporate targets</p> <p>Reviewing and guiding corporate responsibility strategy</p> <p>Reviewing and guiding risk management policies</p> <p>Reviewing and guiding strategy</p>	<p>The Board is regularly updated with all major risks and opportunities related to social and environmental aspects, including water.</p>

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	Juan Pablo del Valle Perochena, Orbia's Chairman has competence on water issues through his active involvement in diverse environment organizations. He is chairman of Mexico City's first water fund (Agua Capital) and member of the Latin American Conservation Council and the Latin America Water Funds Partnership, which he has been supporting and advising for a number of years. For instance, he is the co-chairman of the Latin America Conservation Council, which works to mainstream nature-based solutions that protect, restore, and better manage biodiversity and water to tackle climate change and reach the sustainable development goals (SDGs).	<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)

Other C-Suite Officer, please specify (Vice President, Sustainability)

Water-related responsibilities of this position

Please select

Frequency of reporting to the board on water-related issues

As important matters arise

Please explain

The VP of Sustainability is part of the Executive Leadership Team (at the same level as the CFO and other key functional roles, influencing our business strategy) and reports to the Board regularly. All aspects of sustainability, including water-related matters, are reported to the VP of Sustainability by the business groups Sustainability leaders.

The VP and Corporate Sustainability team work directly with the Business Group Presidents to identify water risks and opportunities and embed these into business decision-making and strategy.

In terms of operations, Wavin, Netafim and Dura-Line have closed loop water systems, and even though some plants are located in water stress areas, water risks have been determined to be low for these 3 businesses. Vestolit and Koura are our largest water users and both have taken steps to reduce their water footprint and assess and manage water risks.

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

Other C-Suite Officer, please specify (Vice President, Health, Safety and Environment & Engineering)

Water-related responsibilities of this position

Please select

Frequency of reporting to the board on water-related issues

As important matters arise

Please explain

The VP of Health, Safety and Environmental is part of the Executive Leadership Team (at the same level as the CFO and other key functional roles, influencing our business strategy) and reports to the Board regularly. All aspects of sustainability, including water-related matters, are reported to the VP of Sustainability by the business groups Sustainability leaders. His work is directly linked to the operations on site, hence, providing guidance and management opportunities for Orbia's environmental performance, including water-related issues.

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	No, not currently but we plan to introduce them in the next two years	We have incorporated an ESG modifier to senior management compensation that can impact 10% of the annual bonus (positively or negatively). The current targets include making progress on our current environmental and social ImpactMark metrics. 2 out of those are directly related to environmental issues: Reduce Greenhouse Gas emissions and Reduce waste sent to landfill. Given Orbia's operational impacts, these are relevant to all our businesses, while water issues are material to only certain of our businesses. Incentives related to water are being discussed as our Orbia wide water plan evolves.

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, trade associations
- Yes, other

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?

Given the diversity of our operations, we encourage engagement for policy influence purposes at business group level, to improve our water performance.

As we progress on our water journey to develop context-based goals, we will strengthen our governance structure around policy influence activities across our business groups. As part of this, we will make sure all our engagement related to policy is aligned with our corporate purpose, values, and sustainability strategy and commitments (including water). However business group already engage with initiatives for collective action:

In 2022, Orbia's Precision Agriculture Business Netafim joined the [UN Global Compact Water Resilience Coalition](#), a business pledge to preserve the world's most water stressed river basins by elevating global water stress to the top of the corporate agenda and preserve the world's freshwater resources through collective action in water-stressed basins and ambitious, quantifiable commitments. Also, Orbia's Building and Infrastructure Business and Precision Agriculture Business are actively participating in the consultation process to prepare for the 2023 UN Water Conference and SIWI World Water Week.

We have started a reporting process to ensure that all memberships and engagements, direct or indirect, that influence policy, are reported to corporate level for assessment. Corrective actions will be taken when necessary to make sure all actions are consistent with our corporate water strategy.

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)

orbia_annual_report_2022_en.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	5-10	<p>Water is at the core of a significant part of our business solutions. As part of our purpose to advance life around the world, one of the challenges we have committed to addressing with our products and services is managing water resources better. See more information here: https://www.orbia.com/GlobalImpact/</p> <p>In 2022, we expanded our water journey by conducting a comprehensive water risk analysis, in partnership with Waterplan, to further understand, quantify and prioritize water-related risks covering all sites of our Polymer Solutions Business Vestolit. The project considers a deep dive into our Coatzacoalcos, Mexico site, which through detailed analysis will enable it to establish a water stewardship plan and context-specific goals. In addition, as we update our climate risk assessment, physical, regulatory, and community water-related risks for all Orbia plants will be covered.</p> <p>And even though water use and discharge is not among the top five material topics at Orbia level, it can be of higher importance to some of our Business Groups, especially those with sites in water-stressed areas. Where relevant, sites are planning to develop long-term context-based water targets; expand water-related benefits to stakeholders through diverse initiatives; and contribute to Sustainable Development Goal No.6 through their products and solutions.</p>
Strategy for achieving long-term objectives	Yes, water-related issues are integrated	5-10	<p>Our businesses are constantly investing in developing solutions that include capture, recycling and reuse of water, with rain and stormwater harvesting, street gullies and heating and cooling systems. Our smart products include solutions that ease the burden of installation for managing water distribution for homes and buildings; sewer systems that support city-wide sanitation, and chemicals applied for water treatment and sanitation purposes. These solutions help bring clean water to millions of people and bring more circularity to water systems within buildings and entire communities. Some examples of strategies can be seen in section 4, related to opportunities.</p> <p>Also, through the WRI Aqueduct Tool, we have identified that 42% of our sites were in areas of high or extremely high stress at end 2022, representing 47% of total water withdrawal. These facts are informing our strategy, and as part of our commitment, we will start a process to establish context-based targets for water, where current, future conditions and thresholds of our water basins based on science will be considered, especially in water scarce areas.</p> <p>Orbia is signatory to the UN CEO Water Mandate, and reports progress across six areas of water stewardship in our Impact Report every year.</p>
Financial planning	Yes, water-related issues are integrated	5-10	<p>Our businesses, especially Wavin and Netafim are continuously assessing potential financial impacts from their products and solutions that contribute to water efficiency and conservation; as well as needed investments to grow specific water-related offerings.</p> <p>In addition, Orbia is constantly looking for effective ways of protecting water sources and reusing water wherever possible to reduce consumption in our operations. Where necessary, investments are discussed and planned.</p>

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)

19800000

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

0

Water-related OPEX (+/- % change)

0

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

0

Please explain

Orbia continuously invests in water efficiency, control and protection. However, detailed breakdowns of our investments and spend on water-related topics are still limited at corporate level. We are currently strengthen the technological infrastructure to provide accurate breakdowns.

We estimated to have invested about \$19.8 million USD on water-related initiatives (wastewater treatment, water circularity, measurement systems, etc.) and this investment is expected to grow to meet compliance-related demands, as well as advancing on our water journey.

W7.3

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

	Use of scenario analysis	Comment
Row 1	Yes	We have used the RCP 8.5 scenario (Business as usual) to evaluate our climate-related physical risks, which include a deep dive into water-stress risk. For our climate-related transition risks, we have used the IEA Sustainable Development Scenario.

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.

	Type of scenario analysis used	Parameters, assumptions, analytical choices	Description of possible water-related outcomes	Influence on business strategy
Row 1	Water-related Climate-related	We have used the RCP 8.5 scenario (Business as usual) to evaluate our climate-related physical risks, which include a deep dive into water-stress risk. For our climate-related transition risks, we have used the IEA Sustainable Development Scenario.	<p>In general, all 12 high-priority sites included in our climate risk assessment are exposed to low to medium risks for hazards analyzed (cyclones, floods and water stress).</p> <p>From our climate-related applied models, we have identified that for medium risk sites we should:</p> <ul style="list-style-type: none"> •Conduct site visits to further investigate site vulnerabilities. •Review vulnerabilities with the sites to verify their materiality. •Research and discuss best practices for decreasing vulnerability and increasing resilience for the identified hazards. •Develop recommended mitigation actions included in this assessment. <p>Also, all 12 high-priority sites are exposed to risks related to an increase in water costs by 2030, which also have an effect on production costs.</p>	We are currently discussing and developing a strategy to respond to water-related challenges, especially in sites located in water-stressed areas, as well as identifying water stewardship and security opportunities. Water availability, neighboring community engagement, and increased water costs are some examples of topics considered for action plans.

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 are in the early stages of developing a more robust global water strategy.

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	Resource efficiency in the production process (products, services, processes, and technologies that utilize limited resources in a sustainable manner while minimizing impacts on the environment) Product use improves water management and address water scarcity and quality issues.	<Not Applicable>	All products that come from our manufacturing plants that operate within water efficiency principles, and our extrusion plants (Wavin, Dura-Line and Netafim) maintain closed loop systems that minimize water withdrawal can be considered as low water impact products. Our portfolio includes systems that minimize water use and loss, such as rainwater harvesting systems and precision irrigation solutions, as well as systems that support the access to improved drinking water and safe management and treatment of waste, reducing health hazards. https://www.orbia.com/GloballImpact/

W8. Targets

W8.1

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

No, but we plan to within the next two years

W8.1c

(W8.1c) Why do you not have water-related target(s) and what are your plans to develop these in the future?

	Primary reason	Please explain
Row 1	We are planning to introduce a target within the next two years	Orbia is currently working on a global water plan, considering water related risks and opportunities as the main drivers to guide actions. On the one hand, priority high-risk plants operating in water stress areas will develop context-based water goals contributing to our aspiration to be net positive, while in parallel driving collective action by engaging in Water Positive Impact activities in targeted water basins (E.g., rainwater management, WASH, regenerative agriculture).

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

(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
W1 Current state	The following GRI indicators are verified every year: 303-3 Water withdrawal by source 303-3 Water withdrawal in water stress areas 303-4 Water discharge by quality and destination 303-4 Water discharge in water stress areas 303-5 Water consumption	ISAE 3000	All our water withdrawal and discharge data is covered in the assurance scope, as stated in our Sustainability Report. https://www.orbia.com/493c54/siteassets/6.-sustainability/sustainability-reports/2022/orbia-2022_independent_assurance_statement_en.pdf

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	<p>At Orbia, plastic products are aimed to serve a long life purpose in applications that support progress to a more sustainable world. Single use plastic production represents a negligible fraction of our product portfolio.</p> <p>Orbia's Polymer Solutions businesses Vestolit and Alphagary, focus on PVC general and specialty resins, and PVC and zero-halogen specialty compounds with a wide variety of applications in solutions that undergird everyday life. Polymer solutions businesses supply Orbia's downstream businesses and global customers seeking applications in pipes, cables, flooring, auto parts, household appliances, clothing, packaging, health and safety and medical devices. In 2021, Vestolit marked a milestone with the incorporation of bio-based* ethylene in vinyl chloride production and their Vinyl in Motion Program to promote the collection of discarded PVC products that can be transformed into useful products.</p> <p>Orbia's Building & Infrastructure business Wavin is an innovative solutions provider for the global building and infrastructure industry. This business is tackling some of the world's toughest challenges relevant to ensuring safe and efficient water supplies (made of plastic), sanitation and hygiene, climate-resilient cities and better building performance. Our Building and Infrastructure group, for instance, supplies PVC pipes to our Precision Agriculture group.</p> <p>Orbia's Precision Agriculture business Netafim's leading-edge irrigation systems, services and digital farming technologies enable stakeholders to achieve significantly higher and better-quality yields, while using less water, fertilizer and other inputs.</p> <p>Orbia's Connectivity Solutions business Dura-Line produces more than 400 million meters of essential and innovative infrastructure annually —telecom conduit, cable-in-conduit and other HDPE products and solutions that create physical pathways for fiber and other network technologies that connect cities, homes, and people worldwide.</p>

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	Orbia supports and adheres to the Strategic Approach for International Chemicals Management (SAICM) of the United Nations Environmental Program (UNEP), which promotes the transparent exchange of data and information related to products, using a life-cycle approach. Orbia is progressing towards delivering more detailed information regarding environmental and health impacts on each life-cycle stage of the manufactured products , thorough product specific Life cycle assessments and Environmental Product Declarations.

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	No, risks assessed, and none considered as substantive	<Not Applicable>	<Not Applicable>	<p>According to S&P Commodity Insights, plastics end use demand is expected to double 2020 figures by 2050 (https://storymaps.arcgis.com/collections/1e05ebf390554cb8b7cfa80e521afda?item=8). It also indicates non-virgin material will significantly increase to meet this demand. Circularity at Orbia is a highly relevant topic where efforts go from incorporating Sustainable Design Principles to a strong focus on integrating recycled plastics content in our products as part of our ambition to decarbonize our product portfolio.</p> <p>As part of our business processes, we continually identify climate and/or water related risks, including physical, transitional, regulatory, and other risks. The Orbia risk management teams quantify the potential financial impact and timeframe of each risk. Risks with higher financial impact are prioritized for mitigating action.</p> <p>A risk with a substantive (high) financial impact on a global Orbia corporate level is one where the potential financial impact was identified as greater than 50 Million USD . However- a risk can be considered substantive for a specific Orbia business group or site with a lower potential financial impact as well. Also- the risk impact can be considered substantive/strategic on a global Orbia level even with a lower potential impact, pending on significant potential influence in terms of safety, environmental or other forms of compliance, business continuity or reputation.</p> <p>The following are the risk threshold categories as defined by Orbia. The threshold category names have been adjusted to match those used in the CDP reporting requirements.</p> <p>High: \$50MM or greater USD Medium-high : \$37.5MM USD – \$50MM USD Medium : \$22.5MM - \$37.5MM USD Low-medium: \$7.5MM - \$22.5MM USD Low: Less than \$7.5MM USD</p> <p>As part of our ongoing update to our TCFD-aligned Climate Risk Assessment, new thresholds are being discussed in alignment with updated company-wide risk management practices.</p>

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 polymers	Increase the proportion of post-consumer recycled content in plastic polymers	<p>Our Building & Infrastructure Business aims to increase recycled content in construction pipes and materials to 70K tons by 2025. Our Precision Agriculture Business aims to increase recycled content in driplines for irrigation by 45% in 2030.</p> <p>Orbia has a strong commitment to circularity based on the incorporation of Sustainable Design Principles with a strong focus on integrating recycled plastics content in our products as part of our ambition to decarbonize our product portfolio.</p> <p>In 2022, Wavin launched its first bio-circular product ranges. Bio-circular feedstocks are renewable and have a very low carbon footprint. Wavin also started a pilot project to test closed loop collection services branded as Wavin Take Back Service, to facilitate access to circular feedstock.</p> <p>During 2022, Precision Agriculture launched a full-scale circularity program in Mexico to tackle plastic waste in agriculture. By opening Mexico's largest agricultural plastics recycling facility in Culiacán, which will be able to initially process over 3,000 tons of plastic per year, Netafim will collect used driplines from farmers across the country, where end-of-life irrigation pipes from any manufacturer will be shredded, washed, and pelletized.</p> <p>Dura-Line's take-back program allowed the repurposing of over 120,000 conduit reels, resulting in savings of \$4.5M in 2022.</p> <p>Polymer Solutions' Vinyl in Motion Program is allowing us to advance our post-consumer and post-industrial PVC circularity activities in Latin America by partnering with customers, final consumers, and relevant players of local PVC value chains. Some examples of the recycled materials are IV bags collected from hospitals, which are transformed by Alphagary into "Infinitude", a reborn compound which can then be used to manufacture hoses, wire jackets, car mats and shoe soles. Other discarded PVC items like pipes and blister packaging are re-incorporated in the production of PVC pipes.</p>

W10.5

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

	Activity applies	Comment
Production of plastic polymers	Yes	Orbia's Polymer Solutions businesses Vestolit and Alphagary, focus on PVC general and specialty resins, and PVC and zero-halogen specialty compounds with a wide variety of applications in solutions that undergird everyday life, most of them are long time applications like PVC pipes, which lifespan is beyond 50 years.
Production of durable plastic components	Yes	<p>Orbia's Building & Infrastructure business Wavin is an innovative solutions provider for the global building and infrastructure industry. Our products are relevant to ensuring safe and efficient water supplies (made of plastic), sanitation and hygiene, climate-resilient cities and better building performance.</p> <p>Orbia's Precision Agriculture business Netafim's leading-edge irrigation systems, services and digital farming technologies manufactures plastic dripper lines and components to provide significantly higher and better-quality yields, while using less water, fertilizer and other inputs.</p> <p>Orbia's Connectivity Solutions business Dura-Line produces more than 400 million meters of essential and innovative infrastructure annually—telecom conduit, cable-in-conduit and other HDPE products and solutions that create physical pathways for fiber and other network technologies that connect cities, homes, and people worldwide.</p>
Production / commercialization of durable plastic goods (including mixed materials)	Yes	<p>Orbia's Building & Infrastructure business Wavin is an innovative solutions provider for the global building and infrastructure industry. Our products are relevant to ensuring safe and efficient water supplies (made of plastic), sanitation and hygiene, climate-resilient cities and better building performance.</p> <p>Orbia's Precision Agriculture business Netafim's leading-edge irrigation systems, services and digital farming technologies manufactures plastic dripper lines and components to provide significantly higher and better-quality yields, while using less water, fertilizer and other inputs.</p> <p>Orbia's Connectivity Solutions business Dura-Line produces more than 400 million meters of essential and innovative infrastructure annually—telecom conduit, cable-in-conduit and other HDPE products and solutions that create physical pathways for fiber and other network technologies that connect cities, homes, and people worldwide.</p>
Production / commercialization of plastic packaging	No	Orbia does not produce plastic packaging.
Production of goods packaged in plastics	Yes	Orbia's PVC resins is mainly packaged in plastic big bags. A very limited amount of small components of solutions offered by our other BGs may be packaged in plastics.
Provision / commercialization of services or goods that use plastic packaging (e.g., retail and food services)	Yes	Minor components of our goods/services may be packaged in plastic bags.

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)

1617000

Raw material content percentages available to report

% virgin renewable content

% virgin fossil-based content

<Not Applicable>

% virgin renewable content

100

% post-industrial recycled content

<Not Applicable>

% post-consumer recycled content

<Not Applicable>

Please explain

These value represents the amount of volume sold of plastic resins and plastic compounds during 2022.

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)

1177000

Raw material content percentages available to report

% virgin fossil-based content

% virgin fossil-based content

100

% virgin renewable content

<Not Applicable>

% post-industrial recycled content

<Not Applicable>

% post-consumer recycled content

<Not Applicable>

Please explain

Value excludes produced plastic volumes as they are referenced in 10.6. The metric tons referenced here correspond to an estimated value of sold tons of manufactured plastic goods (mainly PVC and HDPE pipes and dripper lines).

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	80850	% virgin fossil-based content	100	<Not Applicable>	<Not Applicable>	<Not Applicable>	The value provided as explained in the question rational is an estimated amount of plastics polymers that may be directed to packaging applications downstream our value chain.

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	% recyclable in practice and at scale	<Not Applicable>	<Not Applicable>	100	Our plastic polymers sold is mainly PVC, which is 100% recyclable. As an evidence of this, our Wavin business group has increased PVC recycled content in product sold and expect to increase it to 70K tons by 2025. Additional examples of circularity efforts are described on page 38 of our impact report: https://www.orbia.com/4962f7/siteassets/6.-sustainability/2022-impact-report/orbia_impact_report_2022.pdf

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.

Additional information on our sustainability strategy, including water topics is available in our Impact Report 202: https://www.orbia.com/4962f7/siteassets/6.-sustainability/2022-impact-report/orbia_impact_report_2022.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	Corporate Vice President Sustainability and Corporate Affairs	Chief Sustainability Officer (CSO)

SW. Supply chain module

SW0.1

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

	Annual revenue
Row 1	9648000000

SW1.1

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

No, CDP supply chain members do not buy goods or services from facilities listed 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	No, this is confidential data	Geolocation data is sensible information we intend to protect. Sharing would require a Non Disclosure Agreement.

SW2.1

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

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.

Product name

Chemical products from all chemical sites.

Water intensity value

2.08

Numerator: Water aspect

Water withdrawn

Denominator

Total production (Ton)

Comment

This answer corresponds to the water intensity of all our chemical products.

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