

Orbia 2020 SASB Index

Figures with this check mark (✓) are third-party assured.

Chemicals Sustainability Accounting Standard Version 2018-10

Topic	Accounting Metric	Code
Greenhouse Gas Emissions	Gross global Scope 1 emissions, percentage covered under emissions-limiting regulations.	RT-CH-110a.1
	603,969 metric tons in 2020. ✓ At least 64,109 metric tons or 11% of Scope 1 emissions are covered under emissions-limiting regulations. See Direct Scope 1 GHG emissions (GRI 305-1) data for further details.	
	Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets and an analysis of performance against those targets.	RT-CH-110a.2
	We continue in line with our commitment to mitigating climate change through our operations and hope to achieve approval for our Science Based Targets Initiative in the coming months, aligned with a 1.5° C scenario. With an ambition to achieve net zero carbon emissions by 2050, and Scope 1+2 GHG emissions reduction of 47% by 2030 (target pending submission to the Science Based Target initiative, and subsequent approval) together with a Scope 3 GHG emissions reduction target to be developed, we are planning to drive decarbonization through our business at a steady pace. Our key strategies to achieve this include: <ul style="list-style-type: none"> • Reviewing the energy mix in manufacturing operations and converting to fuels and gases with more favorable environmental profiles e.g., biofuels; • Increasing our proportion of renewable electricity at our sites; • Exploring carbon capture opportunities; • Optimizing operational processes to drive incremental energy efficiencies in manufacturing and logistics; • Leveraging innovation to support low-carbon manufacturing; • Increasing our use of recycled raw materials; • Engaging in material recovery operations, for example, refrigerant recovery through our Koura brand and recycling end-of-life drip lines by Netafim; • Partnering with suppliers and industry organizations to drive best practice at Orbia, and • Continuing employee education and engagement in sustainability initiatives 	
Air Quality	Air emissions of the following pollutants: (1) NOx (excluding N₂O), (2) SOx, (3) volatile organic compounds (VOCs) and (4) hazardous air pollutants (HAPs)	RT-CH-120a.1
	NOx (tons) 647 ✓	See Air emissions (GRI 305-7) data for further details.
	SOx (tons) 952 ✓	
	VOCs (tons) 114 ✓	
	Total 1,713 ✓	

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Energy Management	(1) Total energy consumed, (2) percentage grid electricity, (3) percentage renewable, (4) total self-generated energy	RT-CH-130a.1														
	Total energy consumed (GJ)	25,897,288 ✓														
	Percentage grid electricity	35% ✓														
	Percentage renewable	2% ✓														
	Total self-generated energy (GJ)	10,209,134 ✓														
See Energy consumption (GRI 302-1) data for further details.																
Water Management	(1) Total water withdrawn, (2) total water consumed, percentage of each in regions with high or extremely high baseline water stress.	RT-CH-140a.1														
	Total water withdrawn: 15,645,929 m ³ in 2020 ✓	<table border="1"> <thead> <tr> <th>Brand</th> <th>% Sites in water stressed areas</th> </tr> </thead> <tbody> <tr> <td>Dura-Line</td> <td>5%</td> </tr> <tr> <td>Koura</td> <td>4%</td> </tr> <tr> <td>Netafim</td> <td>11%</td> </tr> <tr> <td>Vestolit/Alphagary</td> <td>7.5%</td> </tr> <tr> <td>Wavin</td> <td>7.5%</td> </tr> <tr> <td>Total</td> <td>35%</td> </tr> </tbody> </table>	Brand	% Sites in water stressed areas	Dura-Line	5%	Koura	4%	Netafim	11%	Vestolit/Alphagary	7.5%	Wavin	7.5%	Total	35%
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	Total	35%														
	Total water consumed: 3,920,451 m ³ in 2020 ✓															
Based on our updated 2020 assessment using the World Resources Institute (WRI) Aqueduct Version 3.0 tool, 42 of our plants are in areas of high or extremely high water-stress, representing 35% of our sites and 49% of our total water withdrawal.																
See Water consumption (GRI 303-3 to 303-5) data for further details.																
Number of incidents of non-compliance associated with water quality permits, standards and regulations.	RT-CH-140a.2															
None in 2020.																
Description of water management risks and discussion of strategies and practices to mitigate those risks.	RT-CH-140a.3															
In 2020, we embarked upon a program of water risk assessments covering the full spectrum of watershed risks (physical, regulatory and community-related). We completed assessments for all five Vestolit resin plants in Mexico and Colombia (representing 41% of Orbia's consumption and located in water stress areas) and during 2021, we aim to use these results to establish context-based water targets for each of these sites.																
Hazardous Waste Management	Amount of hazardous waste generated, percentage recycled.	RT-CH-150a.1														
	We generated 7,593 tons of hazardous waste in 2020, of which 5% was recycled or prepared for reuse. ✓															
See Waste generated (GRI 306-3 to 306-5) data for further details.																

Topic	Accounting Metric	Code																
Community Relations	<p>Discussion of engagement processes to manage risks and opportunities associated with community interests.</p> <p>At Orbia, we fulfil our purpose through our solutions for resilience that address the world's most pressing social and environmental challenges. At the same time, we share a responsibility to contribute to improving the lives of the people in the communities where we do business. Our approach is based on helping alleviate urgent critical needs while contributing to strengthen communities through collaboration, partnership and the pursuit of longer term positive social impact. We engage with representatives of stakeholders in our communities to gain insight that will help us address their concerns and expectations. Specifically, we engage with local communities close to our factories and also with NGOs that represent broader national, regional and global interests relating to economic development, and social or environmental needs. We aim to develop contributions and partnerships to deliver long-term value that benefits communities and societies in general. Our engagements include: partnerships in programs for local impact; meetings with NGOs, community leaders and local governments to understand needs and identify common interests; academic forums on innovation, and sustainable development and engagement with Research Centers. Additionally, we are currently developing a set of tools that will help our operations assess risks, map their communities and interest groups to define strategic approaches for stakeholder engagement</p> <p>Examples of these engagement activities can be found in different sections of our 2020 Sustainability Report.</p>	RT-CH-210a.1																
Workforce Health & Safety	<p>(1) Total recordable incident rate (TRIR) and (2) fatality rate for (a) direct employees and (b) contract employees.</p> <table border="1"> <thead> <tr> <th>All Orbia Injury rates 2020</th> <th>Employees</th> <th>Contractors</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Total Recordable Incident Rates (TRIR)</td> <td>0.77 ✓</td> <td>0.63 ✓</td> <td>0.75 ✓</td> </tr> <tr> <td>Lost Time Injury Rate (LTIR)</td> <td>0.36 ✓</td> <td>0.37 ✓</td> <td>0.36 ✓</td> </tr> <tr> <td>Fatality rate</td> <td>0.005 ✓</td> <td>0 ✓</td> <td>0.004 ✓</td> </tr> </tbody> </table> <p>See Injury rates (GRI 403-9) data for further details.</p>	All Orbia Injury rates 2020	Employees	Contractors	Total	Total Recordable Incident Rates (TRIR)	0.77 ✓	0.63 ✓	0.75 ✓	Lost Time Injury Rate (LTIR)	0.36 ✓	0.37 ✓	0.36 ✓	Fatality rate	0.005 ✓	0 ✓	0.004 ✓	RT-CH-320a.1
All Orbia Injury rates 2020	Employees	Contractors	Total															
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Fatality rate	0.005 ✓	0 ✓	0.004 ✓															
	<p>Description of efforts to assess, monitor and reduce exposure of employees and contract workers to long-term (chronic) health risks.</p> <p>We aspire to create safe places to work throughout Orbia, with a community of individuals who are committed to working safely and to implementing all our policies, standards, frameworks, supported by processes that enable them to do so. In this way, we make safety a habit that is consistently embedded in everything we do. No rule book can account for every eventuality, so we rely on a safety mindset and culture to complement the systems we have in place. While we must continue this work to achieve our vision of zero injuries, we are encouraged by a notable reduction in injury rates across the business over the past several years.</p> <p>Work-related hazards are assessed through our regular safety risk assessments, and we have not identified any significant hazards that pose a risk of ill-health. Instances of work-related ill-health reported for 2020 were not identified with specific hazards.</p> <p>Work-related hazards that pose a risk of high-consequence injuries are not specifically identified as distinct from other hazards. All work-related hazards are addressed through our safety assessments and risks are minimized through targeted improvements in procedures, protocols, training and communications. Typically, we calculate SIF (Serious Injuries and Fatalities) injuries which include fatalities, life-threatening and life-altering injuries, and in 2020, we recorded 3 SIFs from four business groups representing approximately 90% of our revenues. We are working to improve our detailed data collection with regard to SIF from across our global business.</p>	RT-CH-320a.2																

Topic	Accounting Metric	Code
Product Design for Use-phase Efficiency	Revenue from products designed for use-phase resource efficiency. 23% This figure represents the percentage of revenues from precision irrigation (water reduction, reduced soil contamination), stormwater management (climate resilience addressing flooding and groundwater depletion); indoor climate solutions (energy reduction); low GWP medical propellants (low-carbon); trenchless pipe rehabilitation solutions (fewer emissions and pollution, longevity, reduce water loss); resins that result in energy consumption reduction by our customers; and those that extend product use such as Dura-Line's FuturePath. This figure excludes revenue from Orbia products made using recycled content, per SASB definition, although a portion of the products in some of the mentioned ranges are made with recycled raw materials.	RT-CH-410a.1
	(1) Percentage of products that contain Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Category 1 and 2 Health and Environmental Hazardous Substances, (2) percentage of such products that have undergone a hazard assessment. Not currently reported at Corporate level.	RT-CH-410b.1
Safety & Environmental Stewardship of Chemicals	Discussion of strategy to (1) manage chemicals of concern and (2) develop alternatives with reduced human and/or environmental impact. Not currently reported at Corporate level.	RT-CH-410b.2
	Percentage of products by revenue that contain genetically modified organisms (GMOs). Not applicable. None of our products contain GMOs.	RT-CH-410c.1
Management of the Legal & Regulatory Environment	Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry. Some examples from our Business Groups include: Koura is an active member of the Global FACT (Forum for Advanced Climate Technologies), promoting the development of low GWP propellants and refrigerants alongside other key players in the fluorinated gas market such as Arkema, Chemours and Honeywell. They are also members of the Alliance for Responsible Atmospheric Policy. Our Wavin Sustainability leaders are very active with the TEPPFA regarding circular economy initiatives and influencing policy around this topic in Europe. Wavin was also active in the 2021 Climate Adaptation Summit.	RT-CH-530a.1

Topic	Accounting Metric	Code
Operational Safety, Emergency Preparedness & Response	Process safety incidents count (PSIC), process safety total incident rate (PSTIR) and process safety incident severity rate (PSISR)	RT-CH-540a.1
	Process safety incidents count (PSIC)	15 ✓
	Process safety incident severity rate (PSISR)	0.029 ✓
	Process safety total incident rate (PSTIR)	0.054 ✓
Notes: <ul style="list-style-type: none"> All figures refer to employees and contractors in total, in 2020. PSISR rate refers to major incidents. Rates are calculated on the basis of 200,000 hours. Internally, we use the term PSER (Process Safety Event Rate). This is equivalent to PSTIR. 		
Number of transport incidents		RT-CH-540a.2
22 incidents in 2020.		
Transportation incidents include data for Wavin, Vestolit, and Alphagary. Incidents include spills, injuries and regulatory transportation violations incurred through third-party logistics providers.		

Activity Metric	Code
Production by reportable segment	RT-CH-000.A
Business Group	Tons produced in 2020
Polymer Solutions	4,466,881
Fluorinated Solutions	2,714,327
Building & Infrastructure	707,783
Precision Agriculture	159,518
Data Communication	252,266
Orbia Total	8,300,774

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