



Sustainability Approach

At Orbia, we believe that advancing solutions to enhance the quality of life around the world delivers business success and social and economic value for all those connected directly and indirectly to our activities.

Our purpose-led focus on addressing the world's most pressing challenges drives our business agenda and our strategic approach to sustainability.





Our approach rests on two pillars, supported by several action programs:

Delivering innovative, sustainable solutions that enhance the resilience of people, society and the planet.

Our solutions contribute to:


- Increasing food availability using less water, land and energy.
- Building cities that are smart, safe, sustainable and regenerative.
- Connecting and empowering communities through better data access.
- Supporting innovation to deliver advanced healthcare technologies.

Acting in line with the highest standards of ethical conduct, accountability, responsibility and transparency.

Our accountabilities include:

- Operating in compliance with laws and regulations and our Code of Ethics.
- Mitigating climate change, promoting circularity and engaging in environmentally positive practices.
- Maintaining an empowering, safe and supportive workplace.
- Contributing to the quality of life in our communities.
- Engaging stakeholders and reporting our progress.

For further information:

 [Sustainability Policy](#)



Building Blocks of our Sustainability Strategy

Our strategy was born out of several processes we undertook over the past few years.

Our Transformation Journey

In 2019, we transitioned into Orbia Advance Corporation, adopting not only a new name, but also a refreshed corporate purpose “to advance life around the world”, a new organization and realignment of our capabilities, focusing us on being an organization that helps deliver a better future for all.

Our Materiality Assessment

As part of our transformation, we engaged globally with all key stakeholder groups, reaching hundreds of individuals across 50 countries, to solicit their views on Orbia’s most significant economic, social and environmental impacts, relevant trends and expectations of our global Group. The results yielded material sustainability topics both at the Group level and the level of each of our five Business Groups. Our aggregation of these inputs at a corporate level used a weighted mechanism based on Business Group revenues and also based on the volume of responses by stakeholder group.

Orbia’s Top 10 Material Impacts

SUPPLY CHAIN	PRODUCTS	PEOPLE & COMMUNITIES	ENVIRONMENT
Sustainable sourcing	Solutions for resilience	Health & Safety	Circular economy
Quality & safety of products	Innovation	Employee development, engagement & retention	Emissions
		Investment in local communities	Water use & discharge

In 2020, we continue to be guided by this materiality assessment. We recognize that the COVID-19 pandemic has led to new ways of working and doing business and we expect to reassess the implications of COVID-19 on our material priorities during 2021. In any event, existing priorities such as health and safety, solutions for resilience and investment in local communities have been critical elements of our COVID-19 response to date and will likely remain priorities for our stakeholders in the coming years.

For further information:

[Materiality Assessment Results](#)





Our support for the Sustainable Development Goals (SDGs)

In considering our role as a business that aspires to benefit global sustainable development and deliver solutions to the world’s most pressing challenges, we pledged support for the United Nations’ SDGs and determined which of the 17 SDGs we can most effectively contribute to.

We align primarily with seven goals that represent the greatest opportunities for Orbia to help deliver the future we all need. We describe the ways in which we have advanced these SDGs during the past year in the [Sustainable Solutions](#) section of this report.



Feeding the world sustainably



Making health and well-being more accessible



Better managing water systems



Empowering communities with data



Making cities more livable, lovable and resilient



Responsible management of chemicals and waste



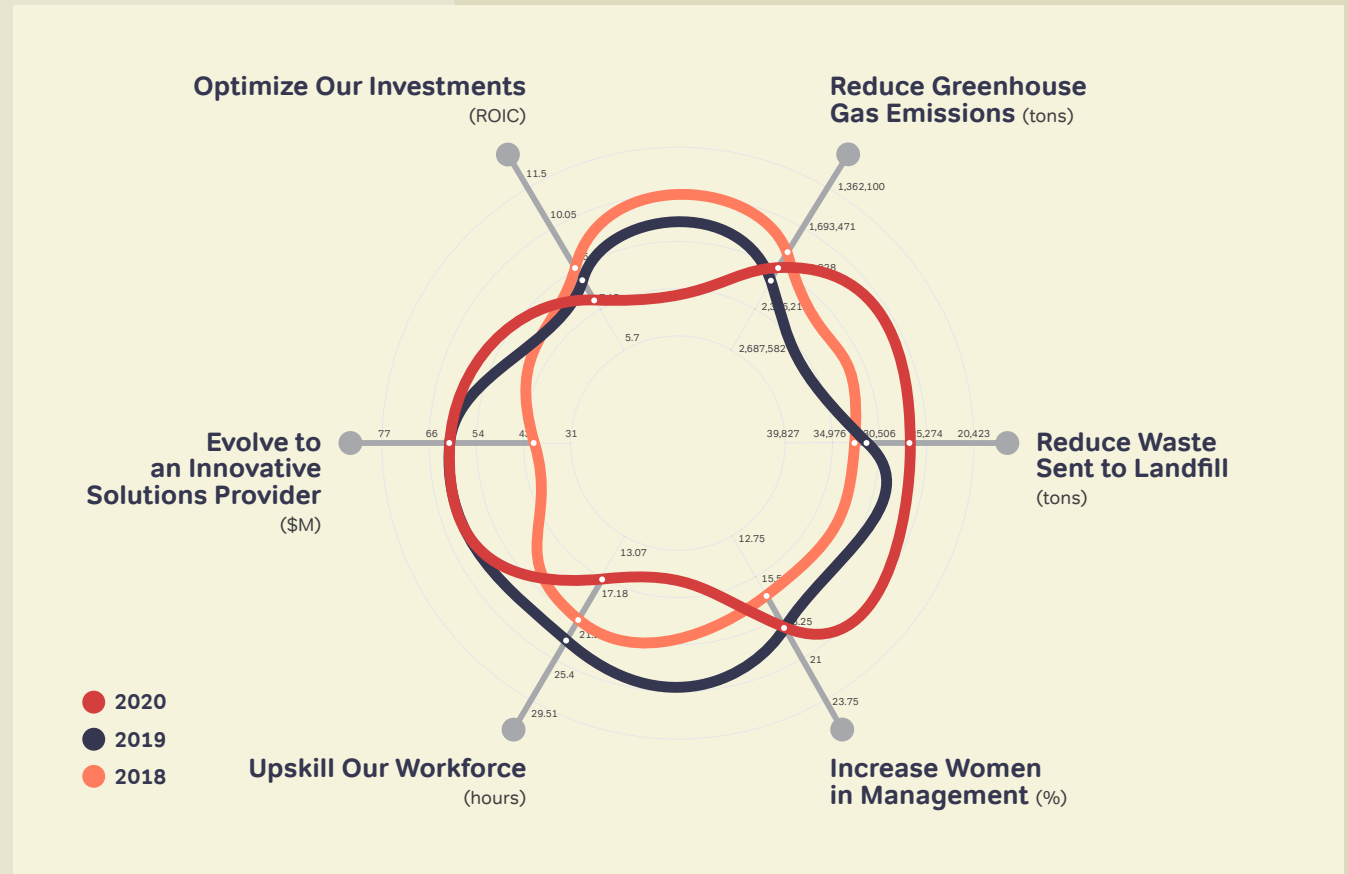
Mitigating our impacts on the climate



Orbia's ImpactMark

Our ImpactMark is more than just an innovative “living” logomark—it is a visual representation of our purpose-driven performance year-on-year. The ImpactMark reflects Orbia’s commitment to advancing life around the world by marking our progress on six key performance indicators related to the themes of people, planet, and profit. The ImpactMark is updated annually and reflects our progress over three-year cycles, with the outermost rung representing the most recent year.

The 2020 update of the ImpactMark demonstrates Orbia’s ongoing journey towards striving to achieve a more perfect circle.





Sustainability Commitments and Progress in 2020

For all goals with the exception of SOx, our baseline year is 2019. The baseline year we use for SOx emissions is 2018, as 2019 was an atypical year in terms of operations at our main contributing site, due to a one-month planned shutdown for maintenance.

Impact Area	Goal	Target Year	Baseline	Performance in 2020
Climate Change	Achieve net zero carbon emissions*	2050	2 million tons CO ₂ e	1.87 million tons CO ₂ e ✓
	Reduce Scope 1 and 2 GHG emissions by 47%**	2030	2 million tons CO ₂ e	1.87 million tons CO ₂ e ✓ (-7%)
Air emissions	Reduce sulfur oxide (SOx) emissions by 60%	2025	1,355 tons	952 tons ✓ (-30% versus 2018)
Environmental Management	100% of sites certified with an environmental management system	2025	55% (70/127 plants)	59% (71/120 plants)***
Waste	100% of plants will send zero waste to landfill	2025	24% of plants	25% of plants ✓
Safety	Total Recordable Incident Rate (TRIR) below 0.2 total for employees and contractors	2025	0.71	0.75 ✓

Notes

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

*Scope 1+2

** Pending submission to the Science Based Target initiative, and subsequent approval.

*** Total number of active plants decreased in 2020.



ESG Performance Data Summary

Environment	Units	2018	2019	2020	YoY	GRI	SASB	SDG
Scope 1 Energy	MWh	2,882,746	2,931,020	2,835,871 ✓	-3%	302-1	RT-CH-130a.1	13
Electricity, cooling heat and steam	MWh	2,723,899	4,525,516	4,357,821 ✓	-4%	302-1	RT-CH-130a.1	13
Total energy consumption	MWh	5,606,645	7,456,536	7,193,692 ✓	-4%	302-1	RT-CH-130a.1	13
Energy intensity	MWh/ton	1.19	0.90	0.87 ✓	-3%	302-3	RT-CH-130a.1	13
Renewable energy purchased	MWh	55,737	81,890	130,983 ✓	60%	302-1	RT-CH-130a.1	7, 13
Renewable energy generated	MWh	-	1,773	3,587 ✓	102%	302-1	RT-CH-130a.1	7, 13
Renewable energy as % of total energy	%	-	1%	2% ✓	1%	302-1	RT-CH-130a.1	7, 13
GHG emissions Scope 1	Tons CO ₂ e	589,078	645,300	603,969 ✓	-6%	305-1	RT-CH-110a.2	13
GHG emissions Scope 2	Tons CO ₂ e	1,215,035	1,354,235	1,262,425 ✓	-7%	305-2	RT-CH-110a.2	13
GHG emissions total Scope 1+2	Tons CO₂e	1,804,113	1,999,535	1,866,394 ✓	-7%	305-1	RT-CH-110a.2	13
GHG emissions intensity Scope 1	Tons CO ₂ e/ton	0.13	0.08	0.07 ✓	-13%	305-4	RT-CH-110a.2	13
GHG emissions intensity Scope 2	Tons CO ₂ e/ton	0.26	0.16	0.15 ✓	-6%	305-4	RT-CH-110a.2	13
GHG emissions intensity Scope 1+2	Tons CO₂e/ton	0.38	0.24	0.22 ✓	-8%	305-4	RT-CH-110a.2	13
NOx	Tons	689	753	647 ✓	-14%	305-7	RT-CH-120a.1	3, 12
SOx	Tons	1,355	1,181	952 ✓	-19%	305-7	RT-CH-120a.1	3, 12
VOCs	Tons	108	92	114 ✓	24%	305-7	RT-CH-120a.1	3, 12
Total other air emissions	Tons	2,152	2,077	1,713 ✓	-18%	305-7	RT-CH-120a.1	3, 12
Total water withdrawal	1,000 m ³	15,753	15,946	15,646 ✓	-2%	303-3	RT-CH-140a.1	6, 12
Total water discharge	1,000 m ³	10,540	11,902	11,725 ✓	-1%	303-4	RT-CH-140a.1	6, 12
Water withdrawal intensity	m³/ton	3.35	1.93	1.88 ✓	-3%	303-3	RT-CH-140a.1	6, 12
Total non-hazardous waste	Tons	54,407	56,104	52,124 ✓	-7%	306-3		12
Total hazardous waste	Tons	12,426	13,251	7,593 ✓	-43%	306-3	RT-CH-150a.1	12
Total waste	Tons	66,833	69,355	59,717 ✓	-14%	306-3		12
Percentage of total waste recycled, reused, recovered	%	51%	50%	52% ✓	2%	306-3	RT-CH-150a.1	12
Percentage of total waste to landfill	%	42%	37%	38% ✓	1%	306-3		12
Waste intensity	Tons/ton	0.014	0.008	0.007 ✓	-13%	306-3		12

Notes

2019 Scope 1 and 2 data has been updated to include process emissions not related to energy in Scope 1 and purchased heating, steam and cooling in Scope 2. Intensity calculations in 2019 reflect methodology change from tons sold (prior years) to tons manufactured (2019 and going forward). Tons manufactured are generally higher than tons sold, as calculations include internal company transfers of intermediate products.



ESG Performance Data Summary

Social	Units	2018	2019	2020	YoY	GRI	SASB	SDG
Employees								
Total employees	No.	21,900	22,123	21,688	-2%	102-8		8
Contractors	No.	2,124	2,649	3,727	41%	102-8		8
Women in management roles	%	17%	19%	19%	✓ 0%	405-1		5
Employee training	hours	473,759	522,243	377,996	✓ -28%	404-1		8
Average training hours	hours/year/employee	21.63	23.61	17.43	✓ -26%	404-1		8
Safety (total employees and contractors)								
Total Recordable Incident Rate	TRIR	1.03	0.71	0.75	✓ 4%	403-9	RT-CH-320a.1	3
Lost time Injury Rate	LTIR	0.36	0.33	0.36	✓ 6%	403-9	RT-CH-320a.1	3
Fatalities	No.	1	1	1	✓ 0%	403-9	RT-CH-320a.1	3
Community investment								
Total giving	\$	3,711,183	2,888,737	2,546,331	✓ -12%	413		2,4,6
Total giving (cash)	%	96%	54%	40%	✓ -26%	413		2,4,6
Total giving (in-kind)	%	4%	46%	60%	✓ 30%	413		2,4,6
Governance								
Women Directors	Number (%)	2(17%)	3(23%)	3(21%)	0%	405-1		5
Independent Directors	%	50%	54%	64%	+19%	102-22		

Notes

YoY: Year on year variation (2020 vs. 2019)

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