



Ardagh Group Sustainability Update Report 2022



About our report

This 2022 Sustainability Update Report, covering data for calendar years 2020 to 2021, affirms our commitment to the United Nations Global Compact (UNGC) and serves as our Communication on Progress (COP). This report provides an update to our 2021 Sustainability Report, which was completed following the latest Global Reporting Initiative (GRI) standards in accordance with the 'core' option.

Throughout our update you will find quick navigation links to bring you directly to certain sections in our report. We have also included + signs for readers to click on for additional information found on our website.

Your questions and comments are always welcome. Please email us: sustainability@ardaghtgroup.com



Previous reports are available on our website



Key takeaways for 2021:

 **70%** of AMP facilities are zero waste to landfill¹ status

 **\$7.6bn** in global revenue

 **90%** of facilities are ISO 14001 certified

 **61%** Total waste recycled excluding glass for AGP

57 production facilities

78% of production facilities delivered community involvement projects despite restrictive conditions during the pandemic

21% water intensity reduction from 2020 in AGP - Europe

16,000+ employees

¹Zero waste to landfill for operational waste streams where allowable by regulation.



Leadership message

Our 2021 Sustainability Report shared our commitment to making a sustainable and positive impact in the communities in which we operate. Since refreshing our sustainability strategy in July 2020, we have maintained a clear focus on our three sustainability pillars - Emissions, Ecology and Social. These pillars are the foundation of our 2030 targets in respect of Science-Based Target initiative (SBTi) approved Greenhouse Gas (GHG) emission reductions, renewable electricity sourcing, water, waste, NOx and VOC emission reductions. Two years into an ambitious 10-year strategy, each region has embarked on detailed plans to ensure we achieve our targets.

We are committed to being a leader in sustainability in the packaging industry and our sustainability commitments are supported by our Core Values of Trust, Teamwork and Excellence. Our Core Values guide how we behave not just with each other, but with our customers, suppliers and other stakeholders each and every day.

In February 2021, AMP issued its inaugural [green bond +](#) valued at

\$2.8 billion. This bond will enable us to maximise our positive impact by publicly committing our finance strategy to the achievement of our sustainability targets, as well as contributing to the United Nations (UN) Sustainable Development Goals (SDGs). We support the UN Global Compact, and we are dedicated to engaging in collaborative projects which advance the broader development goals of the UN.



For 2021 the CDP awarded Ardagh its Leadership Class ratings for sustainability performance - scoring Ardagh A- for climate change, A- for water management and A for supplier engagement. Ardagh's consistently strong CDP climate change rating places us among the highest-rated companies in all industries by CDP. EcoVadis, another independent sustainability rating platform, once again awarded its gold certification for sustainability performance to Ardagh for 2021. More recently, in 2022 we were delighted to receive the [platinum](#)

[award](#), a rating only accredited to 1% of those companies assessed by Ecovadis. We have a clear goal of alignment with the Paris Climate Agreement of 2015 in achieving net zero emissions by 2050 and these independent ratings recognise our commitment and sustainable practices.

In our 2021 report we shared details of a highly anticipated project called [Furnace for The Future +](#). The European glass industry was disappointed that this project, supported by 19 glass companies, was not successful in being awarded a grant by the EU Innovation Fund, despite the project achieving very high evaluation scores in terms of innovation. However, Ardagh is currently evaluating the feasibility of investing in this project independently.

Ardagh is committed to moving forward with ambitious action in sustainability and continuously improving our infinitely recyclable metal and glass packaging. The recent SBTi approval of Ardagh Metal Packaging and Ardagh Glass Packaging's respective SBTi targets is further evidence of Ardagh's commitment to help our customers reach their sustainability goals.

In recognition of the International Day of Education this year, we

announced an update on our multi-year education grant programme in partnership with Project Lead The Way (PLTW). Our U.S. education investments, which align to SDG 4 Quality Education, are just the beginning. We were delighted to announce a global extension of education grant funding to Ardagh communities in Europe and Brazil earlier this year, with plans to be finalised and implemented this year.

We would like to thank our colleagues, customers, suppliers, and partners who have contributed to Ardagh's sustainability achievements to date, and we are excited to continue the great collaborative efforts with these stakeholders to further advance our sustainability strategy to ensure a better future for everyone.

- Paul Coulson

Chairman & CEO
Ardagh Group

- Shaun Murphy

COO
Ardagh Group

- John Sadlier

Chief Sustainability Officer
Ardagh Group

Our locations



+ For more information about Ardagh Group click here



Our Sustainability Strategy

At Ardagh, our sustainability actions are founded on the three pillars of our environmental and social sustainability strategy: minimise our GHG emissions; reduce our ecological impact; and support our people and our communities. This is underpinned by a firm belief that sustainability will drive profitable growth.

Our sustainability strategy

Our sustainability levers

Emissions



Minimise our GHG emissions

- Transition to 100% renewable electricity
- Implement energy efficiency projects
- Increase recycled content
- Innovate in product design
- Partner on low carbon transport
- Source sustainably
- Minimise VOC and NOx emissions
- Approved SBTi targets

Ecology



Minimise our ecological impact

- Achieve excellence in water management
- Promote zero waste to landfill across all plants
- Support increased recycling and use of recycled content
- Promote circularity narratives on use of infinitely recyclable metal and glass

Social



Our people and communities

- Our people:
 - » Diversity, Equity & Inclusion
 - » Increase Engagement Levels
- Our communities:
 - » Engage proactively with our local communities
 - » Accelerate our investment in Ardagh for Education

Our direct link with UN's sustainable development goals

Our sustainability filter



Sustainability only has a sustainable impact if it is economically viable both long and short-term

Renewable electricity

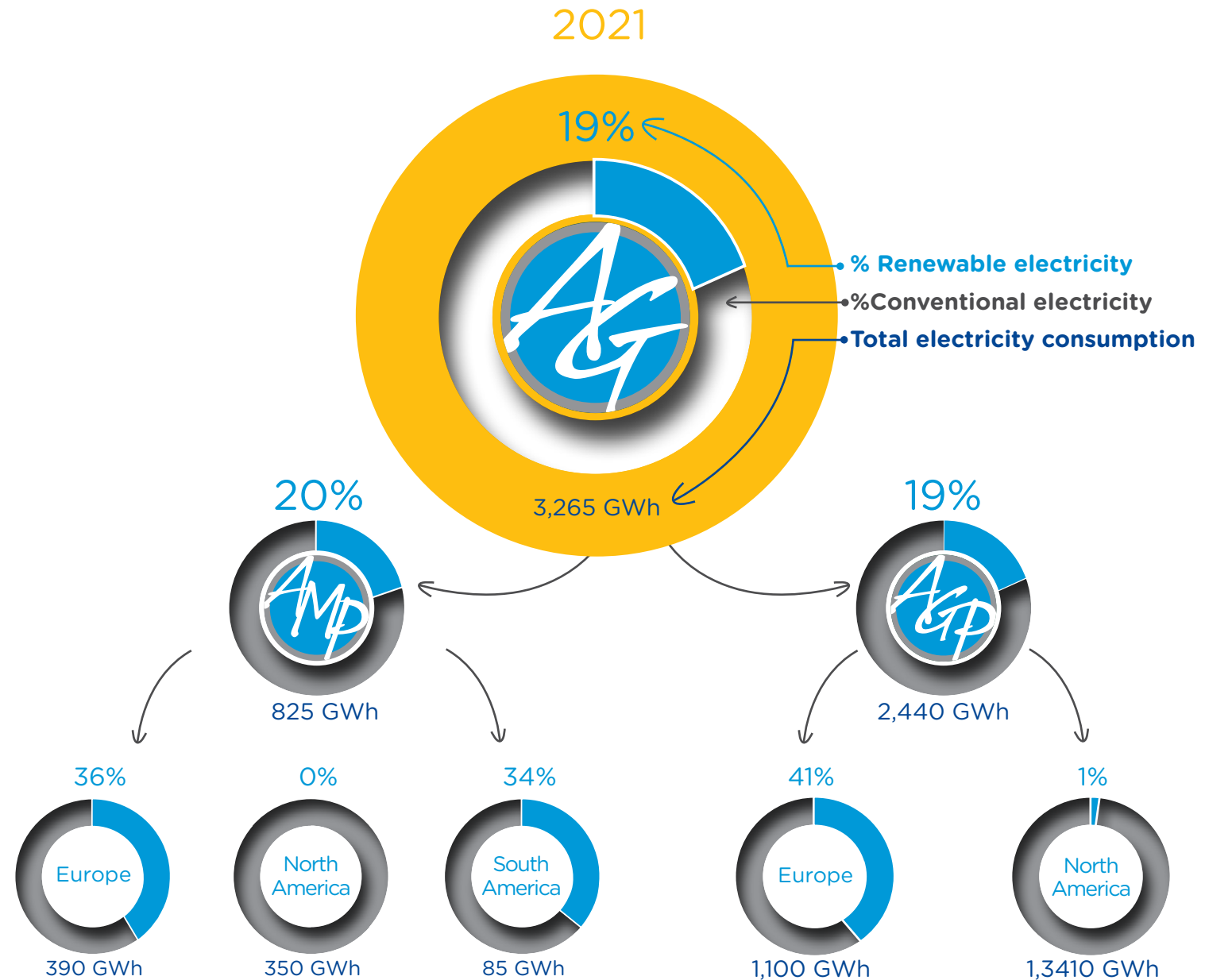
In 2020, we launched Ardagh's Renewable Energy Programme to oversee our activities on renewable electricity. Our strategy for renewable electricity is built on a combination of on-site, near-site and off-site renewable electricity projects. In 2021, we embarked on multiple initiatives across Europe and North America.

Some project highlights:

- In Europe, we embarked on a process to develop four on-site solar projects at our AGP Irvine, Scotland facility and also at our three AMP and AGP facilities in the Netherlands. These installations will cover an area approximately the size of 16 football fields – and will replace 15,000 MWh of electricity consumption from the grid as well as avoid the release of 6,050 tons of carbon emissions per year.
- In North America and Europe, sourcing processes are in progress for virtual power purchase agreements covering 25% for our North American and European electricity demand.



AMP and AGP are targeting the use of 100% renewable electricity by 2030.





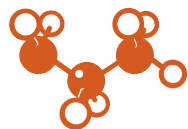
Update on Progress

Our team is building upon the inherent environmental excellence of metal and glass packaging to advance our commitment toward net zero emissions by 2050.

In 2021, we remained focused on strengthening our sustainability strategies with the setting of long-term targets from a 2020 base year to mark a clear path toward this milestone. We validated these targets and supporting actions with approval from the Science-Based Target initiative (SBTi) and are now presenting data addressing 2020 and 2021 results, excluding acquisitions made in the last year which will be included in future reports.

It should be noted that the increases in energy, water and waste values reflect higher production levels to meet demand. Our strategies continue to keep us on track in achieving our short and long-term sustainability objectives, further positioning Ardagh as a key contributor toward the shared stakeholder objective of net zero emissions.

AMP cans VOC intensity (VOC g/1000 units)



0%



AMP's intensity reduction target for VOC emissions: 10% by 2030

AGP NOx intensity (NOx kg/t packed)

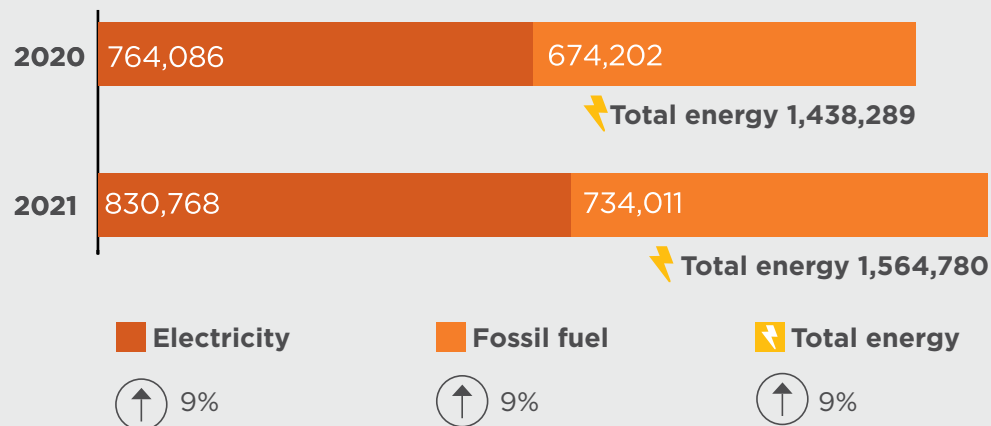


3%

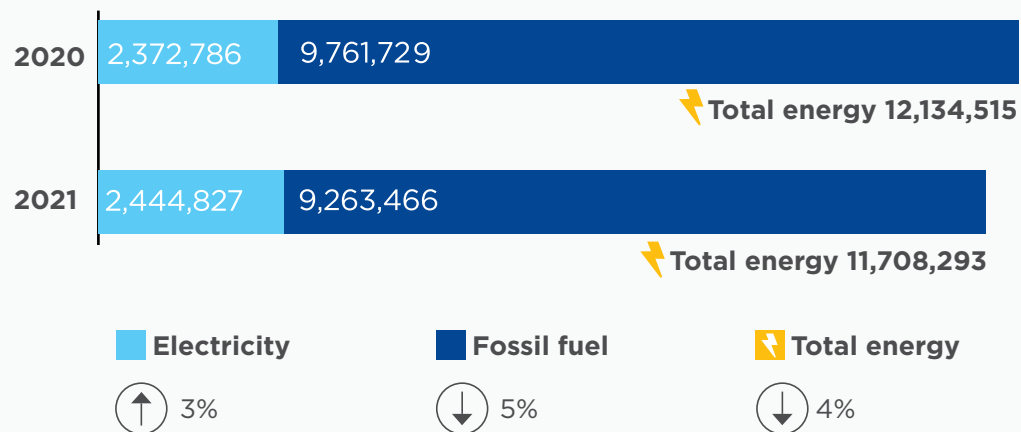


AGP's intensity reduction target for NOx emissions: 23% by 2030

AMP Energy usage (MWh)



AGP Energy usage (MWh)



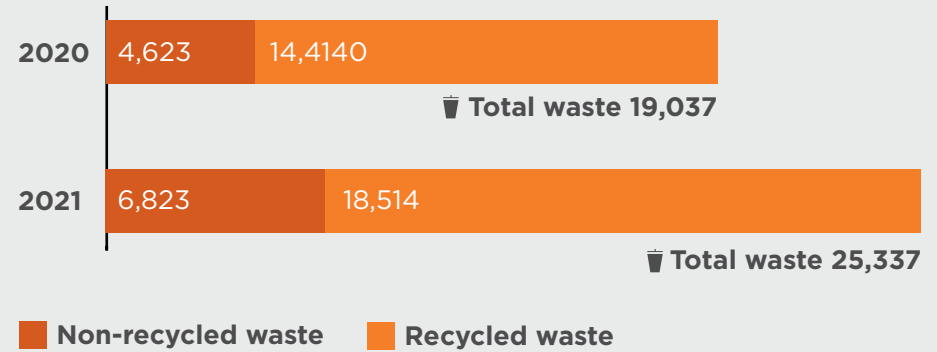
AMP GHG emissions [tCO₂e]

*	2020	2021		
Scope 1	136,759	148,038	↑	8%
Scope 2	210,223	194,493	↓	7%
Scope 3	2,838,019	2,768,950	↓	2%
Total	3,185,001	3,107,987	↓	2%



SBTi: Reduce absolute scope 1 and 2 GHG emissions by 42%. Reduce absolute scope 3 by 12.3% by 2030

AMP waste [t]



AMP is targeting zero waste to landfill by 2025**

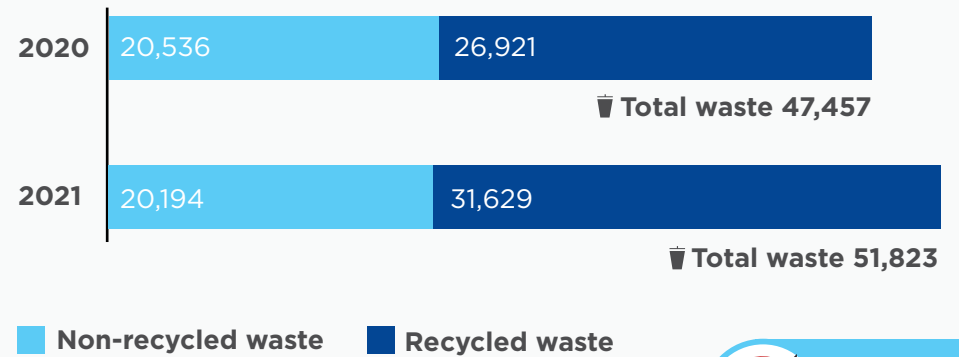
AGP GHG emissions [tCO₂e]

*	2020	2021		
Scope 1	2,285,266	2,332,576	↑	2%
Scope 2	865,535	739,250	↓	15%
Scope 3	1,278,911	1,268,124	↓	1%
Total	4,429,711	4,339,999	↓	2%



SBTi: Reduce absolute scope 1 and 2 GHG emissions by 42%. Reduce absolute scope 3 by 12.3% by 2030

AGP waste [t]

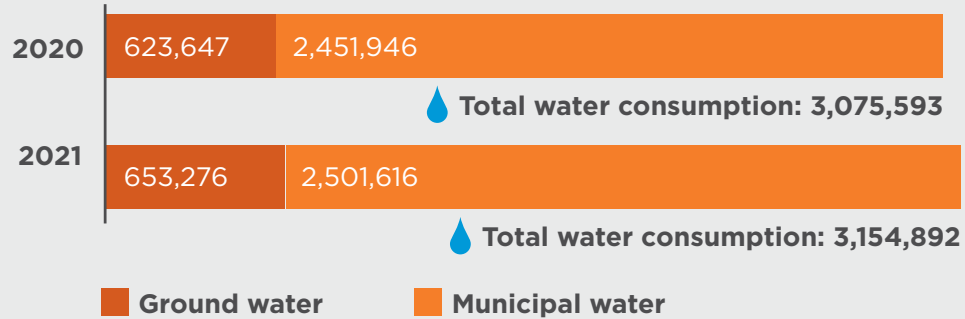


AGP is targeting zero waste to landfill by 2030**

*Scope 1 - Direct emissions such as those from production and transport on site | Scope 2 - Indirect emissions from electricity use | Scope 3 - Upstream emissions such as those from raw material sourcing, transport and waste | **Zero waste to landfill for operational waste streams where allowable by regulation.



AMP water usage (M³)



Total water consumption: 3,075,593

Total water consumption: 3,154,892

Ground water Municipal water

Total water consumption: 3%

AMP cans water use intensity (L/1,000 units)

(L/1,000 units)



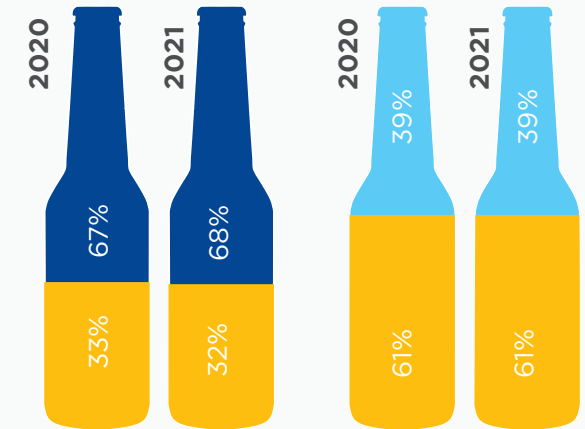
3%



AMP's intensity reduction target for water usage: 20% by 2030

AGP cullet use

- Europe glass cullet
- North America glass cullet
- Virgin material

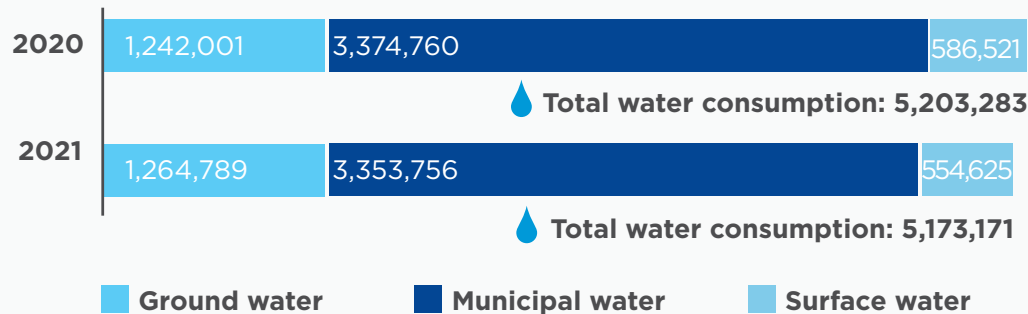


Sum of tonnes (melted)

3,871,550

2,796,639

AGP water usage (M³)



Total water consumption: 5,203,283

Total water consumption: 5,173,171

Ground water Municipal water Surface water

Total water consumption: 0%

AGP water intensity (M³/t packed)

(M³/t packed)



6%



AGP's intensity reduction target for water usage: 26% by 2030

Health and safety at Ardagh

Our primary focus in 2021 was to keep our employees safe and well during the pandemic. We are extremely grateful to all our employees who have worked under tight restrictions and are proud that Covid-19 infection rates remained consistently lower at Ardagh compared with the community infection rates in the regions where we operate.

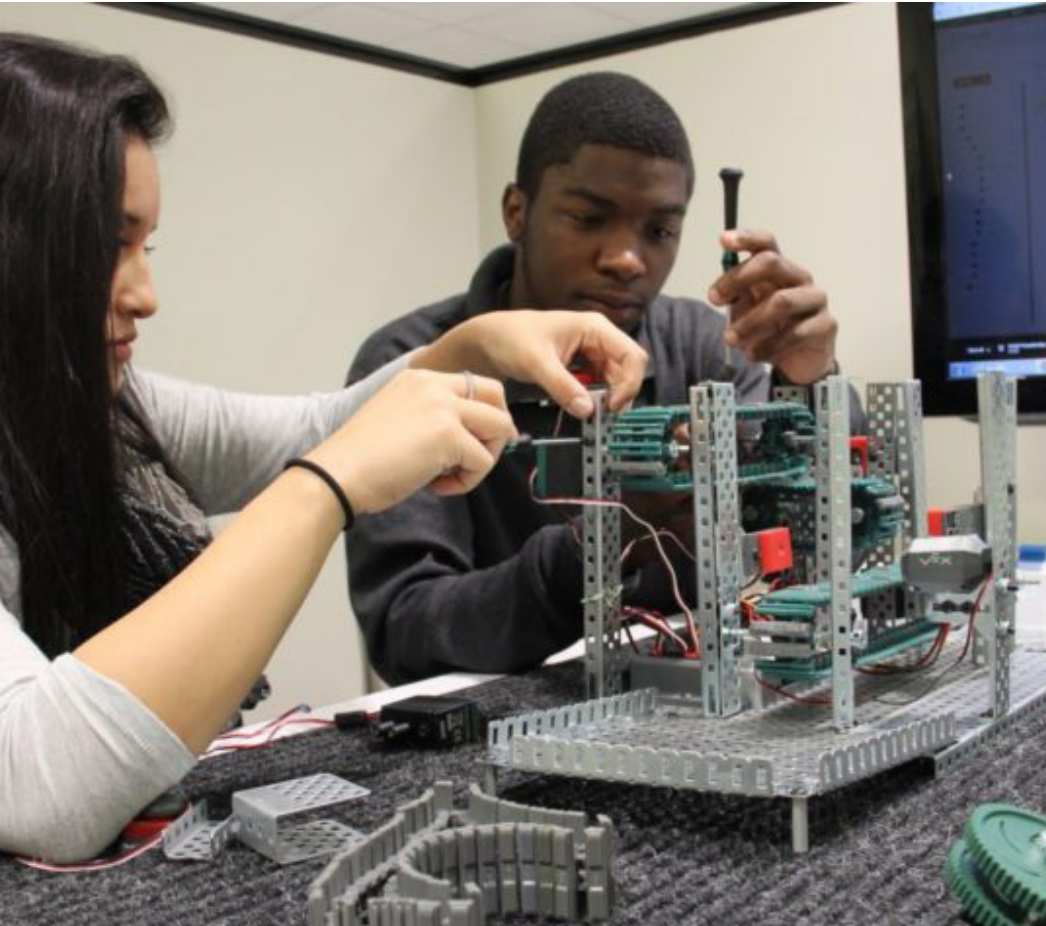
As part of our ongoing commitment to provide a safe working environment for all of our employees, we have increased our focus on preventing low frequency but high severity incidents occurring at our sites with the introduction of the BSafe! 7 lifesaving rules to our existing Environmental, Health & Safety programme, BSafe!

The BSafe! 7 are seven topics, tasks or work environments that pose an increased risk of a life changing injury or illness and include traffic, machine intervention and electrical safety amongst others. During the reporting period, these types of incidents decreased markedly, and we will continue to promote this new programme in the coming years.

The number of low severity incidents increased in 2021. We are working to rebalance this to ensure that people are protected and trained to prevent similar incident rates in the future.

Ardagh	2021	% Change YoY
ARAR	1.55	21% ↑
LTA	0.45	29% ↑
Severity	36.1	9% ↓





This initiative started in the U.S. with Ardagh announcing a \$50 million, **10-year commitment across our 24 communities** in partnership with Project Lead The Way (PLTW).

Social Sustainability

Ardagh for Education

In 2021, we launched Ardagh for Education, a global initiative to give back in our local communities with a focus on Science, Technology, Engineering, and Math (STEM) education programmes in primary and secondary schools.

This initiative started in the U.S. with Ardagh announcing a \$50 million, 10-year commitment across our 24 communities in partnership with Project Lead The Way (PLTW). It is expected that this partnership will benefit more than 500,000 PreK-12 students as well as deliver high-quality teacher training to more than 5,000 teachers across 2,000 schools in Ardagh's U.S. communities. As of June 2022, Ardagh has granted nearly \$8 million to over 330 primary and secondary schools through PLTW which will reach an estimated 1,000 teachers and 150,000 students. Our local U.S. employees are also engaging with these districts and schools through this investment, building relationships with teachers and students, volunteering time in PLTW classrooms, and highlighting career opportunities in STEM and

with Ardagh. This investment and these employee engagement opportunities will continue to scale in the years to come.

Our U.S. Ardagh for Education investments, which align to Sustainable Development Goal – 4 Quality Education, are just the beginning. We are in the process of expanding this education grant funding to Ardagh communities in Brazil, Africa and Europe, with partnerships with leading STEM education organisations in these regions to be finalised and implemented this year.

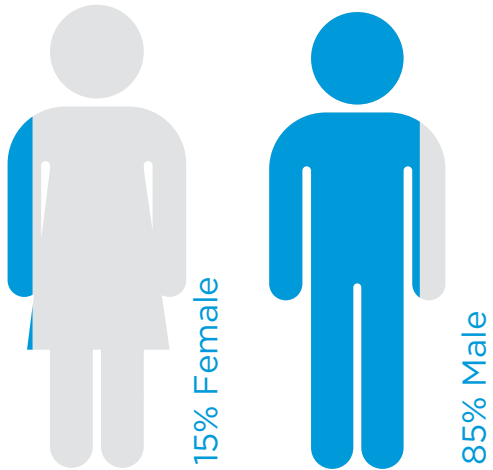
Ambassador Network

In 2021, we established a Social Sustainability Ambassador Network. We believe that in order to build a truly impactful global strategy we need expert knowledge, connection and on-the-ground engagement with our local communities. Therefore, we formed a network of ambassadors at each Ardagh facility and office location. Their objective is to increase awareness with their local teams of Ardagh's Community Involvement Programmes. In 2021, our ambassadors helped us to organise projects such as races, food and water donation programmes, biodiversity initiatives and our World CleanUp week.

Employee data

This employee data includes all Ardagh Group businesses and functions globally.

Driving our growth and success at Ardagh is our talented international workforce. As we continue to evolve our social sustainability strategy, fostering a more diverse and inclusive environment that protects safety and promotes new ideas will be a critical element of our future.



Female	2,409
Male	13,716
Total	16,125

Gender	Total	Female	Male	Age Group	<30	30-50	>50
Board	14	1	13	Board	0	0	14
		7%	93%		0%	0%	100%
Senior Managers	297	40	257	Senior Managers	0	121	176
		13%	87%		0%	41%	59%
Managers	1,117	203	974	Managers	37	655	485
		17%	83%		3%	56%	21%
Other employees	14,637	2,165	12,472	Other employees	2,224	7,241	5,172
		15%	85%		15%	49%	35%





Sustainability in action

AMP - North America

Internships inspiring new generation of canmakers

AMP - North America continues to extend its internship opportunities, building on employee connections to also include pro-active outreach through local colleges. One example is the efforts occurring in the Chicago area, bringing students on board at the Chicago office, Ardagh

Technical Center, and the Chicago production facility, where the team is recruiting from such schools as American University, Emerson College, The Ohio State University, University of Wisconsin-Whitewater and Winona State University.

The internship programme continues to enhance our team by welcoming interns across multiple locations, including, Fairfield, Olive Branch, Valparaiso and Whitehouse. Our interns gained hands-on work experience not easily obtained in the classroom, applying the lessons they learned at school to the real-world job market. Using Handshake, an online platform where companies post internship and job openings

for college students and graduates, along with traditional means such as LinkedIn and employee referrals, led to AMP - North America's most diverse group of summer interns to date.

The internship programme not only provides students with real-world experience for a few months but also is a source for AMP teammate recruiting for long-term careers. To date, the programme has yielded five full-time AMP - North America employees filling new and existing roles in our Communications, Finance and Human Resources functions.

Alex Ramos, Plant Engineering Intern, AMP Olive Branch, performs a quality check as part of his internship responsibilities



Will Lawson, Quality Intern (center), poses with AMP Winston-Salem Assistant Plant Managers Malcolm Edwards (left) and Jamie Yontz.





Sustainability in action

AGP - Europe

Focus on water brings team closer to goal

In 2021, AGP - Europe heavily invested in water reduction programmes leading to a 21% reduction of its water footprint in just one year (2021 compared to 2020). This significant reduction was achieved through a number of initiatives. We installed a closed loop gob distributor system for water cooling in one of our German facilities as well as a closed loop water system in the furnace area

in another German facility. The latter is expected to reduce water consumption by 160,000 m³ or the equivalent of 64 Olympic swimming pools worth per year.

In Sweden, our Limmared facility transitioned to cooling by air instead of water. This simple measure is estimated to have dropped water consumption to a fourth of the previous consumption. Limmared is planning further measures to reduce water consumption this year with the installation of a new scraper water treatment plant.

In Poland, our Ujście team has been working to reduce water consumption for multiple years and has initiated a major water reduction project in 2021 by

installing separate closed loop systems for clean and dirty water. Overall, the water consumption decreased by 21% intensity compared to 2020 and the above mentioned projects helped us reduce water consumption by 140,000m³ in 2021 alone.

The projects implemented in 2021 and the projects in preparation this year (2022) will significantly reduce our overall footprint and help us achieve our AGP water intensity reduction target by 2030.

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



13 CLIMATE ACTION





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The logo for Ardagh Group, consisting of the letters 'A' and 'G' in a stylized, white, serif font, enclosed within a white circle.